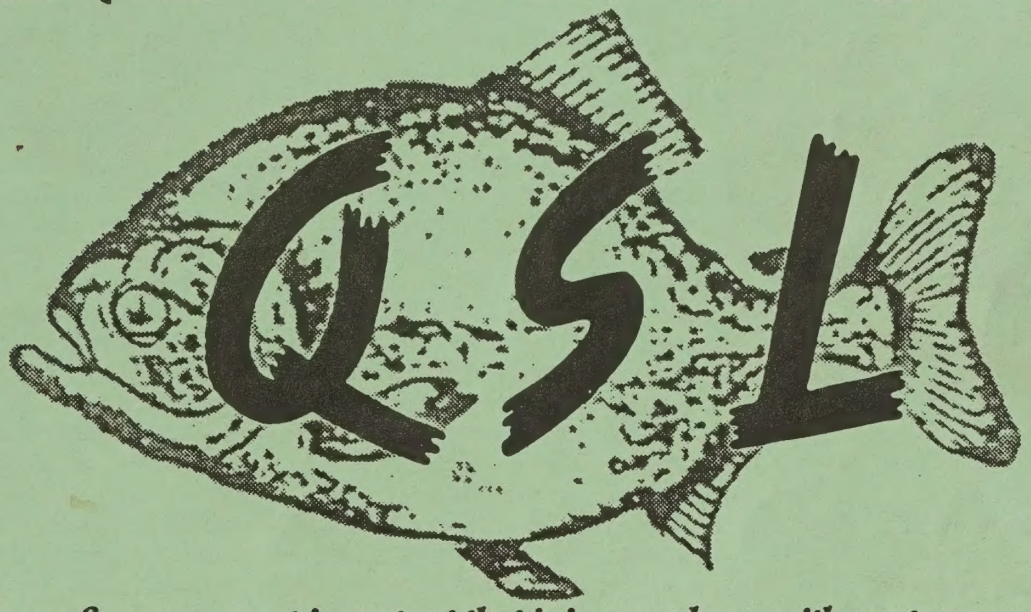
REVIEW OF INTERNATIONAL BROADCASTING

Radio Piraña Int



We are pleased to confirm your recepion report that is in accordance with our programmes log.

To : Fernando Vilonia *Date :* 26 sept. 93 *Time :* 21:00-21:37 utc

Frequency : 13950 (usb) *KHz SINPO :* 44333

Tx power : 500-600W. *Antenna :* direccional 7-8 dbi *QSL no.* 145

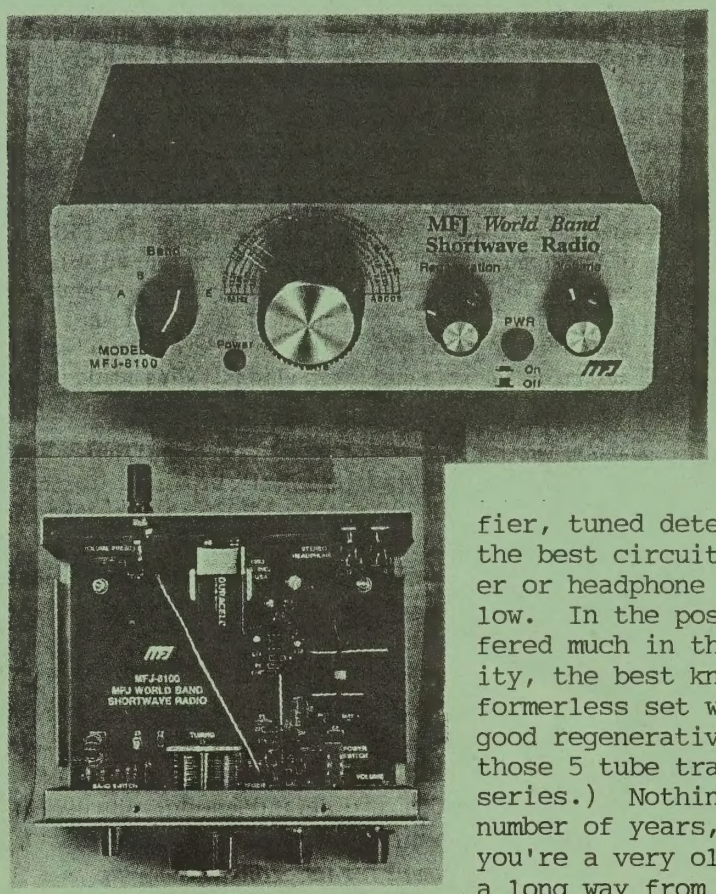
Thank you !!

F. R. García

Issue 147 $2½ ISSN 0149-9971 Edited & Published by Glenn Hauser

radio equipment forum

LOREN COX, JR 1106 CLEVELAND AVE LEXINGTON, KY 40505



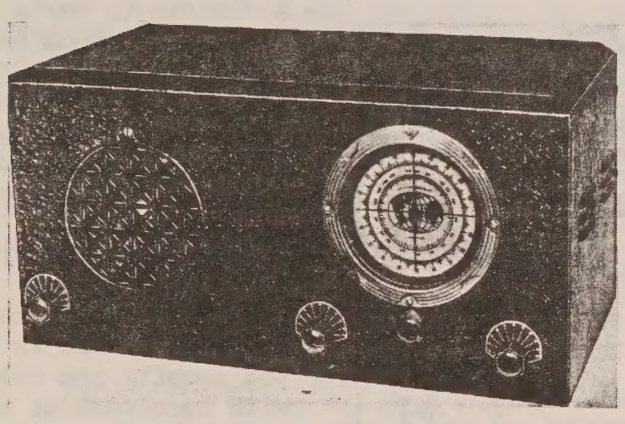
REGENERATION ANYONE? The regenerative detector/-receiver, invented in the 'teens by Edwin Armstrong (who also invented the superheterodyne and FM), was, because of its simplicity and efficiency, the favorite circuit of radio hobbyists/constructors in the 1920s & '30s, Requiring fewer parts than a superhet, it provided a low cost radio for the hobbyist who built his own as well as for manufacturers. The most famous of the manufactured units was probably the National "Thrill Box" of the early 1930s. The first Hallicrafters Skyrider (S-1, 1934) was a TRF set with regenerative detector. By mid-decade a number of well engineered regens were being offered, often in kit form. (Radio magazines had many "roll your own" articles.) The best of these radios featured a tuned RF amplifier, tuned detector (sometimes with a seperate "regenerator" tube - the best circuit) and a high quality audio amplifier stage for speaker or headphone listening. Examples of these receivers are shown below. In the post-war years the radio beginner/hobbyist wasn't offered much in the way of regenerative receivers, nothing of any quality, the best known being the Allied/Knight "Ocean Hopper", a transformerless set with a detector tube and an output tube (A really good regenerative set, in our view, would have had advantages over those 5 tube transformerless superhets like the Hallicrafters S-38 series.) Nothing much has been heard of regenerative receivers in a number of years, only "old timers" having ever used one, and unless you're a very old timer, it was probably an "Ocean Hopper, which was a long way from what a good regen could be.

But a regenerative receiver has recently appeared on the market, probably intended to be not much more than a curiosity, a "throw back" to earlier days, to acquaint you with the kind of radio your father or grandfather, if he was in any way a radio hobbyist, very likely played with. This radio, offered in kit form or prewired, is the MFJ-8100 (k for kit, w for wired) - see above. We really didn't know anything about this nice looking little box until we encountered an entertaining review of it by David Newkirk (does he still write poetry?) in the January 1994 QST. Unlike those good (and not so good) regens of the past, the MFJ is solid state. That seems to take some of the fun out of it right there: none of that pleasure (and magic) that would have to come from seeing the glowing tubes, late night, listening in the dark, when reception ALWAYS improved. But Newkirk says this is the first ss design he's seen that really performs the way a regen should. Powered by a 9 volt battery (the regen builders of the 1930s would have been amazed at that, even more amazed at no tubes - in the early '30s Radio World had run an April Fool's story about a tubeless radio), the MFJ circuit consists of 3 JFETs - one being an untuned grounded gate RF amplifier, with the other two being used in the detector (one functioning as a "regenerator" as in old VT designs?) - and an IC audio stage (LM386). The single tuned circuit with bandswitching (5 bands) provides a frequency range of approx. 3.5 - 22 MHz. (The Skyrider 1 had bandswitching, but nearly all regens of the past had plug in coils.) RF chokes are used in lieu of coils for some bands; the kit builder has to wind a torodial inductor for the highest range. As a kit the unit goes together easily with the help of a good instruction manual. Interestingly - but really beside the point - the 8100 was subjected to the rigorous performance tests the ARRL uses for receiver assesment. In regard to sensitivity, the MDS (Minimum Discernable Signal - a signal which produces a 3 dB SN+N ratio) was determined to be -105 dBm at 4 MHz & 10 MHz. This reading was made just above the point of critical regeneration; also there could have been some mismatch with the League's 50 ohm test equipment. At 20 MHz the receiver's RF gain had to be reduced (a pot in the antenna imput line) to prevent test equipment loading from killing detector oscillation: under these conditions a MDS of -90 dBm was obtained. (By way of comparison with a contemporary synthesized superhet, the FRG-100, also reviewed by Newkirk, had a MDS of -139 dBm at 3.52 MHz & -138 dBm at 14.02 MHz.) Dynamic range

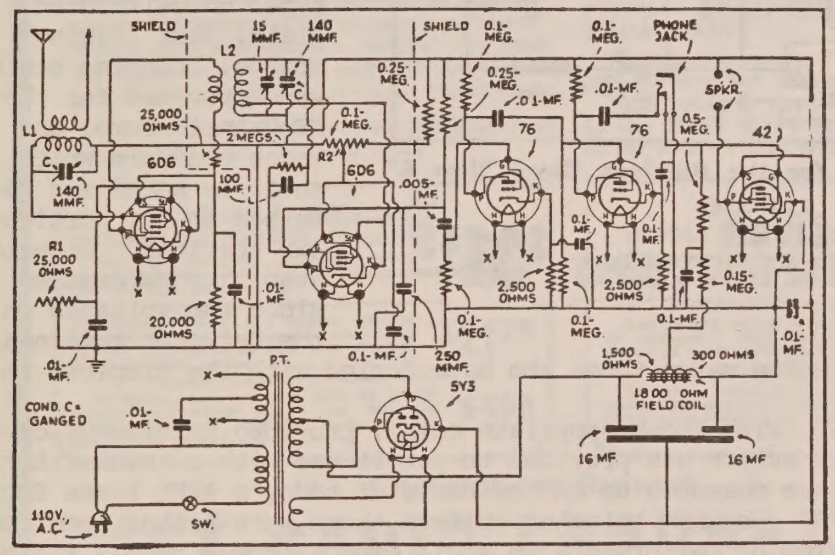
performance is, as Larry Magne would say, uninspiring, hardly a surprise. The unit's instability prevented blocking dymanic range measurement: when the test signal (100 kHz tone spacing) was increased to 85 dB above MDS the received signal disappeared; two-tone third order dynamic range (100 kHz tone spacing) was 70 dB. But the radio does receive shortwave stations, and in what is for today an unique way - a curiosity perhaps, but certainly not a joke. As a means of dealing with the various signal levels to be encountered, the reviewer recommends a 5K ohm pot at the antenna input - one terminal to chassis, one terminal to the antenna post, wiper to antenna. With this alteration the reviewer judged the MFJ unit to compare favorably with good regens of temporis acti - at least in so far as solid state devices make that possible.

BUT LET US for a few minutes return to the bygone days of regenerative radios to the extent that a few pictures and diagrams make that possible. Although thousands of them were built by Hams and SWLs, we'll devote space here to a couple or so regns sold in 1936 and intended to be serious radios for any listener.

The RX-14 S-W Receiver For "Fan" or "Ham"



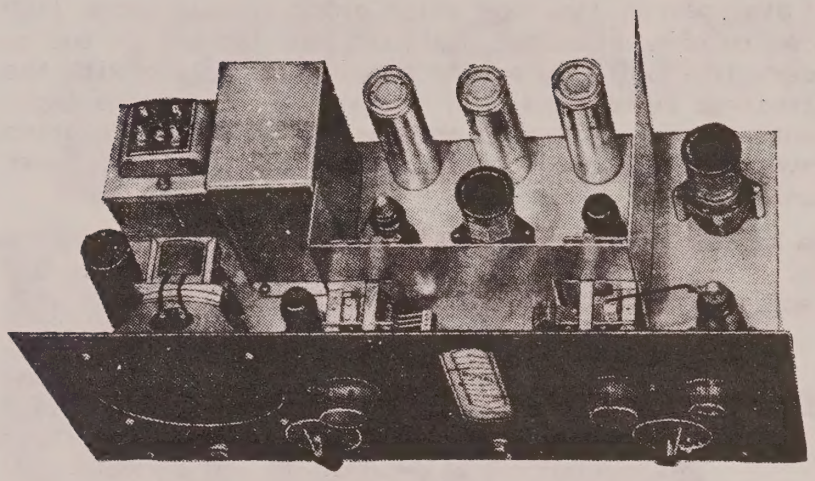
The appearance of the RX-14 short wave receiver, suitable for "Fan" or "Ham," may be noted from the accompanying photo. It is a very smooth working job.



Wiring diagram of the RX-14 receiver. No. 543

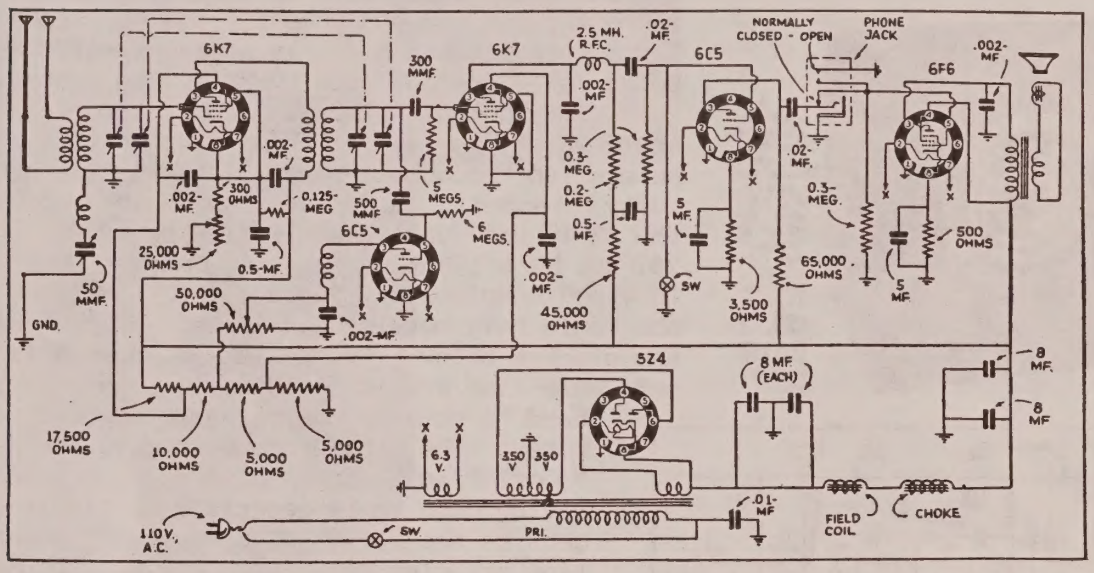
THE RX-14 was sold by the Eilen Radio Corporation of New York, like other sellers of this type of radio, a "Radio Row" operation. The radio was evidently designed by Guy Stokely E.E., who sold what appears to be virtually the same radio through his own company, the Guy Stokely Radio Corporation, the only apparent difference being newer (metal) tube types in the latter. The TRF (two tuned circuits) sets used plug in coils which provided a tuning range of 625 to 9½ meters (so "broadcast band" listening was obviously intended). An Amateur Band only version of the RX-14 was available - coils provided for the 20, 40, 80 & 160 meter bands. Price of the RX-14 wired complete was $24.85, And for $1.00 more one could have metal tubes instead of the ones on the diagram below. Other, less elaborate, regen sets were also available for even less of that hard to come by but valuable depression money. The Stokley concern gave the name "Doerle" to their receivers, that name having come to be generally applied to regens as the result of a series of construction articles by Walter Doerle. Mr Doerle had shown how one could have a functioning tho' minimal radio virtually for pennies. Stokley's 6 tube, top of the line, Doerle was available wired complete for $30.86. One could save a few dollars by purchasing the RX-14 or the 6 tube Doerle in kit form - Eilen charged only $2.00 for wiring the kit. The receivers were housed in sturdy metal cabnets with careful attention to parts layout, good shielding, and a well filtered power supply, essential for good operation of a regen rx. Audio power output was a healthy 3 watts (the MFJ device provides 45 milliwatts) which drove a nice internal field coil speaker. The manufacturers touted the receivers as exhibiting good sensitivity and selectivity, a receiver for both the Ham and the SWLing DXer, with smooth regeneration and good tonal quality. Just noticed the Doerle has 5 controls, probably a tone control. That in addition to the controls shown on the set above, which we take to be Tuning, Regeneration, Stage Aligning Trimmer and RF Gain (used for volume control). Getting the most out of a regenerative radio required skill and patience in tuning and adjustment, but the 1936 radio user didn't expect DXing to be easy, however these sets really wouldn't be difficult to "get the hang of"; in ways we regret never having had the chance. The Doerle tube lineup was metal tubes performing the same functions as above - G versions of the same tube numbers were an option - with the same dual tuned TRF circuit. The cabnet measured 17½x8x8 3/4" and weighed 23 pounds (these radios weren't midgets).

Perusing the pages of Short Wave Craft reveals several manufacturers offering regen sets for the radio hobbyist. Perhaps a bit of an improvement on the two above, at least in regard to the detector, was the Harrison Radio Royal "Pro 6", also a dual TRF set but with one tube functioning as a sep-



ISOLATED REGENERATOR TUBE

This sensational new feature *alone* makes Royal's new professional receiver the outstanding Communication Type receiver of today! Twenty other ROYAL features will convince you that this is the *only* set for you!
Read pages 406 and 425 of the November issue of Short Wave Craft for complete description.
Available with either *metal* or *glass* tubes. Please state your choice when ordering.



Very efficient, smooth-working circuit developed for the Harrison Royal "Pro 6." (No. 520)

COMPLETE "PR-SIX" RECEIVER

with built-in power supply and large dynamic speaker. Complete with SIX real STEEL Tubes, all coils 9¾ to 625 meters, and attractively finished heavy steel cabinet, Laboratory wired and tested, ready to plug in and operate!..... **$31.45**

arate "regenerator", that is, the detector (a 6K7 metal pentode) is not a self regenerating type, as with most regen rxs, but a type 6C5 produces regeneration independently of the detector, which provides a stability and smoothness of regeneration control that is not the case with self oscillating detectors - we surmise an approach used in the MFJ rx, but don't have a diagram to tell. As can be seen from the photograph the ROYAL is a well constructed unit which likely performed to the maximum that could be expected of a regen.

The plug-in-coiled rx had tuning caps for both main tuning and bandspread, but as was was usually the case with receivers of this type, no calibrated dials, just logging scales. Logging scales were provided for the RF Gain (volume) and regen controls which could be noted and returned to for particular stations. Detector stability was assured since the voltages on the detector remained constant, none of those "dead spots" in the tuning range those who have fooled with the simplest regens shall have encountered.

As with the Eilen & Stokely rxs, the PR-10, with the appropriate coils, provided continuous coverage 625 to 9 3/4th meters; a receive/standby switch was provided to permit use with a transmitter.

We don't know how these receivers would have measured up on the basis of today's ARRL tests for receiver performance - any better than the MFJ? We can't help but believe there were better receivers than the MFJ, would have come closer to the kind of performance we would expect from a "real" radio. Those ARRL tests came about as the result of the factors in receiver performance that are most important for effective Amateur Radio operation today; those same factors are also to be considered with with respect to effective SWL DXing under today's conditions. But these radios were intended to be at least satisfactory for the mid '30s "Ham" or "Fan" (SWL), tho' I would be curious as to just how usable one would be today. One who has used only today's synthesized wonders would probably be lost - not only is there no digital frequency presentation but, likely, no frequency marking of any kind. And the control maninpulation required: riding the RF gain (there being no AVC) and getting the point regeneration for maximum sensitivity set just right, and no selectivity relative to today's receivers. But wouldn't it be fun seeing just what such a radio would do? We would hope some curious experimenter might be inspired to duplicate an RX-14 or PR-10: something that at least once deserved to be called a radio, likely more so than "cheapo" superhets that Hallicrafters and National marketed in the post-war years.

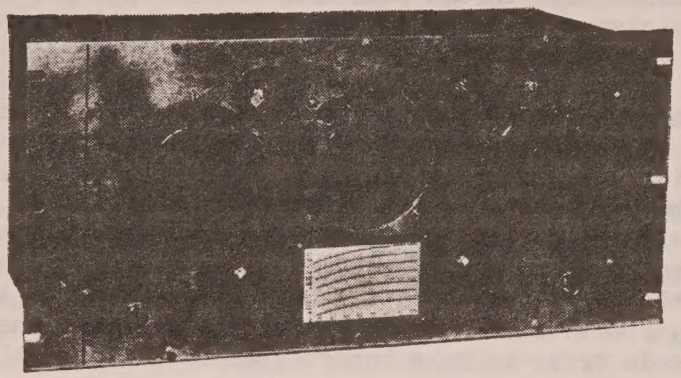
OK, even the best regen sets no doubt left much to be desired - the best superhets of 1936 were all around better radios. But they were more likely to be affordable, and surely would have been - and could still be? - fun to use.

The Ace Do-all DeLuxe

2½ TO 3000 METERS

●

FULL BAND-SPREAD



SEVEN TUBE

●

TUNED R.F. STAGE

●

NOISE SUPPRESSOR

LOOK AT THESE FEATURES:—

● **TUBE LINE-UP:** 6K7 (all metal) tuned high gain pre-selector stage—6K7 electron coupled regenerative detector—76 U.H.F. 2½ to 10 meter Super-regenerative detector—76-76-42 High Fidelity **THREE STAGE** audio frequency amplifier with three watts actual output—5Y4G Full-wave, high voltage full power rectifier. **TOTAL=SEVEN FULL DUTY TUBES!!**

● **TUNED RADIO FREQUENCY STAGE**—A positive essential for sharp selectivity.

● **RANGE:** 100 Kc to 120 Mc. Continuous—no skips!

● **DUPLEX REGENERATION CONTROL: Semi-Automatic** keeps detector action at **peak** sensitivity—manual control for setting.

● **FULL BANDSPREAD:** Two new Transmitter type dials with built-in dual speed friction drive give positive, velvet smooth control and **full spread** of all bands.

● **NOISE SUPPRESSOR:** Built-in, switch controlled device markedly decreases **interfering noises.**

● **AND**—Self-contained, full floating high fidelity dynamic speaker—Single wire or doublet antenna input—R.F. gain control—Headphone jack with automatic speaker cut-out—Built-in power supply. Humless high voltage type for AC operation only—Calibration curves mounted on front panel—Smart, professional satin aluminum finish—Provision for standard 8¾"x19" relay rack mounting—**All metal tubes in R.F. circuits give complete** shielding and **greater sensitivity.** (All glass tubes, if preferred, supplied at same prices) —Dual indirect panel illumination—Attractively finished, durable cabinet for table or rack mount—Extreme simplicity of operation—SIX page instruction, diagram, and tuning booklet—etc., etc.

This is the famous Do-All DeLuxe Receiver that has amazed the entire Short Wave World by its remarkable performance! With this receiver in your "shack" watch your DX catches, QSO's, and your veries grow by leaps and bounds. Other set owners simply have to take a back seat!

The Do-All DeLuxe is **new! It's different! It's better!** And—it costs **less!**

The Do-all DeLuxe is the **only** receiver that incorporates **all** of these important advancements toward **better, easier, POSITIVE RECEPTION OF FOREIGN BROADCAST!**

This is the receiver that will DO-ALL—and more—than higher priced sets can do.

It is honestly the **best value ever offered** to the Short Wave Fan and the Amateur! Order yours today and be convinced!

DO-ALL DELUXE
STANDARD MODEL (9 to 3000 Meters)

Six tube Receiver, complete with matched tubes, and cabinet. Nothing else to buy! (Not wired) **$19.75**

Laboratory wired and tested. Ready for you to attach antenna, plug into socket, and thrill to new and strange programmes! Price..... **$21.75**

If tubes, cabinet, and 200 to 3000 meter wavelength range are not desired at present you may deduct from the above prices..... **$5.00**

DO-ALL DELUXE
ULTRA MODEL (2½ to 3000 Meters)

Seven tube Receiver, complete with matched tubes and cabinet. Ready to be wired. **$23.75**

Laboratory wired and tested, ready to operate. The entire world of Radio at your command! Complete **$26.25**

If tubes, cabinet, and 200 to 3000 meter wavelength range are not desired at present you may deduct from the above prices..... **$5.00**

● **Literature on Request** ●

ACE RADIO LABORATORIES

70 Barclay St., Dept. C-12, New York City

WE COULDN'T leave the subject of regenerative receivers without showing you the Do-all DeLuxe, which received longwave, mediumwave, shortwave & VHF (or UHF as all frequencies above 30 MHz were called in those bygone days). This rack mountable unit provided continuous 3000 to 2½ meters coverage - great for the spectrum scanner. This was made possible by the employment of a superregenerative (a special form of regenerative) detector for the 28 to 120 MHz ranges. We assume no RF amplification was used on VHF as there were no suitable tubes for the purpose until the so called "acorns", which had been developed by 1936, but none are listed for this set. (An early commercial application of this tube was National's superregen 1-10, which tuned from 1 to 10 meters.)

What would one have heard on VHF in the mid-'30s? There was some experimental "high fidelity broadcasting around 30 MHz, some police radic was moving to the 40 MHz range, there was the 5 meter amateur band (56 MHz), experimental television transmissions in the 60 MHz region and the 2½ meter Amateur band (112 MHz). And there was the potential for reception of television audio from England on the 40-45 MHz range (believe there was such a VHF opening circa 1936. Some 20 years later we listenened to European TV audio on these frequencies with a superregen consisting of an untuned grounded grid RF amp and a 6AF4A detector.) Of course there was no FM broadcasting in 1936. As for the name "Do-all": because of the rx's frequency range it "did it all", but it also sounded very much like "Doerle", which we believe was pronounced "do-earl" - maybe an OOT (old old timer) could enlighten us on this.

We can't help wondering how many, if any, of the mid-'30s regens we have shown here, or similar models, might still be extant, in the hands of collectors: needless to say we'd like to find one.

BUT ENOUGH, we suppose, of this wallowing in the past, when what you probably want to know is what are the virtues and faults (do the former sufficiently outweigh the latter?) of the receivers in the current SWL marketplace? How badly does the synthesizer noise - that synthesizer by which you can have frequency stability and direct frequency readout - mask weak signals? Why aren't the IF

bandwidths right, being either too narrow for good audio fidelity or too wide for DXing? If the radio just had better RF dynamic range, had better "ergonomics", etc. A lot of radios are reviewed these days that we don't think are worth the bother - e.g., the Chinese import schlock. Of course, those of us who are without significant expendable income must compromise, trying to find the best performance we can afford. It is always to be hoped that among modestly priced units there may be something of a gem.

Newkirk's review of the YAESU FRG-100 in the January '94 QST was generally commendatory, the performance figures as revealed by the lab tests being acceptable for a rx in its price class. There is synthesizer phase noise sufficient to compromise reception of weak stations adjacent to strong ones. But the main criticism of the receiver was in regard to audio response: excessive AF roll-off resulting in rather muffled audio, with the result that audio fidelity in the wide IF selectivity position is hardly any better that it is in the narrow IF selectivity position. This poor audio performance is at odds with the Passport to World Band Radio review, which reported the FRG-100 as having "better than average audio", tho' the IF filtering (4 & 6 kHz) was criticized as being so wide annoying heterodynes were getting through. So Yaesu, instead of installing batter shape factor filters, reduced the audio frequency response in order to make heterodynes less apparent? - a receiver so altered being the one the ARRL tested?

If devoting so much space to ancient and primitive regen receivers strikes you as a bit ridiculous, then let us devote some attention to the truly sublime, "radiowise", we mean the Watkins-Johnson HF-1000 LF/HF receiver (which appears to be a virtual equivalent of the WJ-8711 surveillance receiver), in the form of a review of the HF-1000 by TOM ROACH (via MIKE PERAAHO and WILL MARTIN):

* EQUIPMENT REVIEW OF THE WATKINS-JOHNSON HF-1000 RECEIVER: BY TOM ROACH (BBS) *

About seven years ago I bought a Panasonic RF-6100 (??) receiver which picked up shortwave signals and displayed the the tuned frequency on a digital display. This receiver triggered the renewal of my shortwave listening hobby which intermittently has existed since the early 1950s. In the late '60s I bought a Drake R-4B and in the late '70s I purchased an R-390A.

After a couple of months with the Panasonic I decided to get serious and purchased a JRC NRD-525, and shortly thereafter a PK-232. As time went by I added two Singer Spectrum Analyzers, a pair of M-7000 decoders, and the NRD-535D to my tools. I went from an antenna consisting of a strand of wire lying on the floor to my current two dipoles (8.5 and 16 MHz), and a pair of inverted "L"s (100 and 500 feet in length). So I guess I consider myself "serious". I do not have an engineering degree but do have a reasonable, but dated, knowledge of electronics. When I first heard of the WAtkins- Johnson (WJ) HF receiver being added to the commercial world and marketed to the SWL community, I was intriqued. Imagine digital signal processing (DSP) and 58 selectable IF bandwidths! I placed an order with Universal Radio (turned out I was third on the list, which when I last checked was up to 17). After much frustration due to delayed shipments the receiver finally arrived... Was it worth the wait and the $3800 price tag? See for yourself from what follows.

For those of you who don't want to read the rest of the review, in a word "Yes!!". I have truly enjoyed the JRC NRD series receivers and they have provided endless hours of excitement and entertainment, but the transition from the NRD to the WJ HF-1000 was about the same order of improvement as the leap from the Panasonic to the NRD-525!

Appearance:

The unit is "large" in that it was obviously built for rack mounted operation. The front panel is 5.25 inches in height, and the 19 inch width makes plenty of room for a large didital display whose digits are twice as large as those on the NRD-series, not to mention wider and brighter. The unit front panel is very dark to not so dark grey in color, with the lighter grey areas used to set off functionally related buttons and knobs. I expected it to be as heavy in weight as it was in appearance. In fact, it is very light, I would guess about 4 or 5 pounds. Both the front and rear panels have handles. The rear panel has easily accessable BNC type connectors for both input and output functions.. It was advertised as having a terminal strip for various audio signals, but instead now features a D connector. You'll have to wire the connector youraelf. They supply the connector and pins. It also has standard connectors for the RS-232 and CSMA remote control features.

Buttons that are "activated" display a green light in the middle of the button to indicate they are engaged. The labels are written in relatively dull white letters, and are "readable" but just barely in a dimly lit area. There are a total of four LCD panels used to dispaly various operating parameters (more on them in a bit). I don't remember any mention of it in the advertisements, but there is a built in loudspeaker, which can be heard through a "grill" of holes on the unit's top cover.

Tuning:

Resolution of the tuned signal is displayed to one Hz. A large tuning knob (with a very light feel, unlike the heavier feel of the NRD-535D) and two arrow buttons enable the user to select the tuning increments in steps of one, ten, one hundred, one thousand, ten thousand,

one hundred thousand, and one million Hertz. At the one Hz increment level, you don't need a fine touch, the exact increments are very easy to set uning either the knob, or tuning arrow buttons. A two level "blinking" LCD [actually LEDs - light emitting diodes] clearly shows what increment level you are set to. Tuning lock is acquired by the touch of a button. When tuning lock is engaged all of the digits are of the same intensity level, and the green light in the tuning lock button goes on.

Modes of operation:

The demodulation types available are: AM, FM, CW, USB, LSB, and ISB [independent sideband]. The advertised AM synchronous mode is not yet available, but a note which came with the receiver assures me it is coming in the form of an EPROM "early in 1994". The EPROM is user installable by the user and does not void the warranty. As a reward for your patience they will also be supplying you a Windows based "Receiver control software". The demodulation mode is selected by depressing a button and then turning a knob, or by continuing to depress the button as it cycles through the dempdulation types.

One mark of a rank amateur (me) was my concern over why it didn't have an RTTY setting. To make a long story short you enable the "standard" RTTY setting by selecting CW demodulation and entering a BFO offset of 2210 Hz. Very easily done. For standard CW or "Morse code" you set the BFO for 750 or 1,000 Hz if you are using the unit in conjunction with the M-7000. BFO frequency offset varies in 10 Hz steps from -8000 to +8000 Hz.

One feature cited in the advertising was the 58 IF bandwidth settings. This is particularly nice since you can tailor the bandwidth to exactly the optimal level for various RTTY signals. Thus there is a 350 Hz bandwidth just perfect for SITOR-A and Russian 50 Baud/170 Hz RTTY. Accordingly there is 500 Hz setting optimal for North Korean News RTTY, 1,000 Hz for Cuban diplomatic RTTY, etc. I was somewhat unhappy when I first tried to receiive RTTY signals and found that the bandwidth I wanted was "skipped". Finally following the old adage that when all else fails, read the directions, I discovered that you could skip or include a bandwidth by toggling a push button. Tuning the Special Function knob cycles through the usable IF BW so some may seek to spend less time twisting the knob by engaging fewer of the 58 BW options. Also in USB/LSB/-ISB modes only (??) 16 settings between 900 and 3,200 Hz are available.

Since this is a "mini-review" I won't go on endlessly about exactly how the receiver is operated. I will say there is a consistent logic to the way things are done and that the learning process quickly improves once you grasp the basic approach. I did not use any of the remote control featuresof the receiver so won't comment on them. I did test the passband tuning and noise blanking, which both appeared to work nicely. At this point let's get to the real meat of the receiver; how it functions in a real signal, not test instrument, environment, especially in comparison to my NRD series receivers.

Operational Testing:

I have a special interest in RTTY, Russian, Cuban transmitters being my favorites, since I am writing a book on how to set up your own home communications intelligence (COMINT) intercept and analysis center. I also have recently regained interest in monitoring ISWBC (BBC, R. Moscow, etc.) including the "tropicals". Also I am currently noticing a greater interest in military SSB HF transmissions.

One of my idiosyncrasiesis the desire to measure an AM transmitter's actual operating frequency and its stability to the one Hz level. While the NRD-535 allows tuning to the one Hz increment level, the frequency is displayed in 10 Hz increments. I quickly made some measurements with the WJ and to my dismay found that it was not measuring the frequency of the station correctly. This is done by tuning to about the correct, i.e., expected frequency, and then engaging the BFO by switching to the CW mode. I take the receiver's audio output and display it on an oscilloscope sweeping at exactly 750 Hz so if I am tuned correctly I will see a single sine wave that is not drifting across the trace. When I tuned to 5 MHz (WWV) I was mildly disturbed to see that WWV was operating off frequency (ha!) by 5 Hz. [That is to say, the receiver's master oscillator was off frequency by 5 Hz - lc.] To make a long story short it became it became apparent to me from using this technique on CHU and WWV that the tuning error was linear at one Hz per MHz. Thus I can still make extremely accurate measurements, but now must subtract one Hz/-MHz from the digital frequency displayed. I haven't sent my registration to WJ but when I do will mention this problem and see if it is easily adjusted. [The problem was subsequently corrected by a potentiometer adjustment in the receiver's LO circuit. To insure absolute accuracy of LO frequency when making this adjustment Mr Roach made use of a Rubidium standard. He now has the receiver's accuracy to within plus/minus 0.5 Hz. Obviously there are many ways of enjoying radio, ranging all the way from building and listening to simple regens to conducting hair-splitting RF measurements with very expensive equipment; the WJ should permit such measurements - lc].

I "tested" the receiver by seeing what kind of DX I could get, measuring some RFs with great accuracy, and its great number of IF bandwidths to see if they provided optimal operation of RTTY signals, all the while comparing it to a truly great receiver, the JRC NRDs. There is a saying that in the land of the blind the one-eyed man is king. All too true! I will never have the

great admiration for the NRDs that I once did. In a word the NRDs are very noisy in comparison to the WJ. AM signals that I can't distinguish a single word of on the NRD are are clearly listenable on the WJ. I have gotten some feedback on the Internet that the noise in the NRDs is due to the microchips used to generate the digital display putting out too much RFI. I can't overemphasize the difference in what signals I can clearly hear on the WJ compared to the NRDs. Now on the BBC or R. Moscow or even most relatively weak stations, this matters not a whit. However, when you do an A/B comparison of Papua New Guinea tropicals which are WEAK, then you know what you paid the extra dollars for.

I never have paid any attention to the signals below 500 kHz until a friend came by yesterday and we picked up several RTTY signals and a CW station below 100 kHz. We connected the 500 foot longwire to both the WJ and the NRD-535D and what was clearly present and readable on the WJ wasn't even to be heard on the NRD-535D!

Using the WJ for RTTY is another great leap forward. When used in conjunction with the M-7000, and watching the M-7000's o'scope tuning output, you can be sure you are getting all that can be gotten with minimum copy errors when using the WJ. Tuning on some types of RTTY signals does require almost Hz resolution, not to mention stability, for optimal tuning. This means you need stability and as good a IF filter match as you can get. I am not sure whether the improvement in noise levels is due to digital signal processing (DSP), a big selling feature of the WJ, lower phase noise, better and quieter LCD [LED] drivers, or what, but something sure makes an incredible difference.

I also use the filtered 455 kHz IF (which is available from a BNC connector output on the rear panel of the WJ) to look for signals and observe modulation characteristics. This is a great tuning aid when looking for weak signals. The WJ puts out a very healthy level of IF signal for examination. My NRD was wired so I could look at its 455 kHz out as well, but the signal level is much lower than on the WJ. An unfiltered 455 kHz output signal is also available via a BNC connector on the rear of the WJ.

Summary:

Do NOT try one of these at home if you don't have the money to buy it. It will be almost impossible for you to return it. Maybe there is something out there that makes the WJ pale in comparison. I don't want to know about it or how much it costs! At the strictly chauvinistic level I'm gald to see an American company produce a piece of high tech receiver gear that makes the Japanese look like junk in comparison. Up to now these receivers were probably made strictly for the military or NSA. No wonder we won the Cold War! If you are a serious SWL type, this is the Great Leap Forward. Mortgage the house, sell your NRDs, ICOMs, or whatever and enjoy it. If your wife or girl friend complains you already spend too much time fooling with the radio, expect a divorce or a break up. Don't say I didn't warn you.

The receiver is available at Grove and Universal for about $3800 and at EEB (when I last checked) for $4000. Expect a wait before delivery!!

The above is based on less than a week's time operating the receiver. It is also a subjective opinion by a user, not a meaningful review by a professional with test equipment. I may have made some big errors or assumptions (won't be the first time!). What this is, is my first time, serious amateur, review of a "dream" receiver. I apologize for any mistakes or errors...remember you didn't pay for this opinion [unless you're a subscRIBer] and thus may get your money's worth. Also, I don't own any WJ stock!!

[Bob Parnass pointed out to the reviewer that the receiver's light emitting diode (LED) display was incorrectly referred to as a liquid crystal display (LCD).]

IT WOULD SEEM that for very exacting reception requirements and hair-splitting frequency measuring the WJ HF-1000 has no peer, at least in the Ham-SWL marketplace. Unquestionably a SWL could want nothing more, tho' many, perhaps most, of us simply don't need that much for SWLing, even pretty serious DXing (but wouldn't you dearly love to have one - a radio than which there is none better? - hell, I would; what radio hobbyist couldn't but admire and want to have in his possession this order of radio technology?).

Mr Roach did not indicate if he was using the optional preselector with the WJ, but since he didn't mention it, we assume not. With the ps the receiver's noise figure is reduced from 14 dB to 11 dB (no indication if this nf is average or uniform). NFs are rarely quoted for HF receivers; we remember a VT rx, the TMC GPR-90, which had a grounded grid input RF amplifier, had a claimed 6 dB noise figure on 10 meters. Unless one is in an <u>extremely quiet</u> receiving location a low nf at HF is virtually useless.

Evidently the HF-1000 combines both good sensitivity and outstanding dynamic range, and maintains that good sensitivity into the low frequency ranges, making it usable where most other receivers for the SWL market are not, even some fairly expensive ones.

We would like to thank WILL MARTIN for a goodly amout of BBS cullings on receivers and satellite news, this column having been mostly prepared when received; will get to next time if still pertinent.

BROADCASTS IN ENGLISH audible in North America
compiled by John Norfolk
country section only updated by gh

ALASKA KNLS NAE
0800-0900 C 9615
1300-1400 C 7355

ALBANIA R Tirana
0130-0200 B 11840 9580
0230-0245 B 11840 9580
2300-2315 C 11825 9760

ALGERIA RTVA
1500-1600 C 17745 15205 15160 9535

ARGENTINA RAE
0200-0300 C 11710 Tue-Sat

ARMENIA R Yerevan
0244-0257 C 17690 17605 10344° 7105
2144-2157 C 11960 11790
2243-2257 C 11945 11790

AUSTRALIA R Australia
0000-0030 C 17860 17795 17750 15510 15365 15240 13775 13605
0030-0100 C 17880 17860 17750 15510 15415 15365 15240 13605 11880 11720
0100-0400 C 17880 17860 17750 17630 15415 15365 13605
0400-0530 C 17760 17750 17630 15415 15365 13605 [& 17880 0500-]
0530-0600 C 17860 17630 15415 15365 13605
0600-0630 C 17880 17670 17630 13605
0630-0700 C 21725 17880 17795 17670 15240 13605 11910 11880 11720 9860 9580
0700-0730 B 21725 17795 17750 17695 15240 13605 11910 11880 11720 9860 9580
0730-0900 B 21725 17750 17695 15240 11910 11720 9860 9580 6080 6020 [& 11880 -0800]
0900-1000 B 21725 17750 15170 13605 9860 9580 9510
1000-1100 B 21725 15170 9860 9580
1100-1200 B 21725 15565 15170 13605 9860 9580 9510
1200-1300 B 15565 15170 11800 7240 6080 6020 5995
1300-1430 B 13755 11800 7240 5995
1430-1630 B 11800 11695 11660 9770 9710 7260 7240 6060 5995 [& 6080 1500-]
1630-1900 C 11880 11695 11660 9860 9580 7260 7240 6080 6060
1900-2100 C 11880 11720 11695 9580 7260 7240 6080 6060 [& 11660 9860 -2000]
2100-2130 C 17860 11880 11855 11720 11695 9645 6080 6060
2130-2200 C 17860 17795 15365 11880 11855 11720 11695 9645
2200-2400 C 17860 17795 15365 13775 11880 11855 11720 11695 [& 9645 -2300]

AUSTRIA R Austria Int'l
0130-0200 B 13730 9870 9655

0530-0600 A 6015
0630-0700 A 6015
1130-1200 C 13730
1330-1400 C 15450
1530-1600 C 11780

BANGLADESH R Bangladesh
1230-1300 C 13615 or 13620

BELGIUM R Vlaanderen Int'l
0630-0655 C 9925 6015
1230-1255 B 17775 15545 Sun
1300-1325 B 17775 15545 Mon-Sat
2330-2355 B 13655 11740

BRAZIL R Bras
1200-1320 C 15445

BULGARIA R Bulgaria
0330-0430 B 11720 9700
1200-1300 C 17625
1400-1500 C 17705 15460
1900-2000 C 11720 9700
2100-2200 C 11720 11645 9700
2245-2345 B 11720 9700

CANADA
24 hours C 6070 [CFRX Toronto]
24 hours C 6005 [CFCX Montreal]

CANADA R Canada Int'l
0100-0130 B 11940 11845 9535 [Sun-Mon -0200]
0100-0200 B 9755 6120 [& 11845 -0130]
0200-0300 B 11940 11845 9755 9535 6120
0400-0430 C 15275 11925 11905 9650
0500-0530 B 17840 15430 7295 6150 6050
1200-1300 B 17820 11855 9635 Mon-Fri
1300-1600 B 17820 11955 Sun
1330-1400 B 21455 15325 11935 [& 17895 17820 15315 Mon-Sat]
2030-2130 B 17875 17850 17820 15325 13670 13650 7235 5995
2200-2230 B 15305 13670 11875 11845 9755 5960 Mon-Fri
2200-2300 B 13670 9755 5960 Sat-Sun [& 15305 11875 11845 -2230]
2230-2400 B 13670 9755 5960 Mon-Fri
2300-2400 B 15235 13670 11940 9755 5960 Sat-Sun

CHINA China R Int'l
0000-0100 B 11715 9780
0300-0400 B 11715 9780 9690
0400-0500 B 11680
A 11840
1200-1300 C 15440 9655-or-15210 summer?
1300-1500 B 11855 summer [apparently still at
1400-1600 B 7405 winter 1400-1600 mid May]
1600-1700 C 15130 15110 11575

COSTA RICA AWR LAm
0000-0100 C 13750 9725 5030
1100-1300 C 13750 9725 5030

COSTA RICA R For Peace Int'l NAE
0400-0800 B 15030 9400° 7375
0800-1200 B 15030 9400° (sometimes also 7375)
1200-1400 B 21465° 15030 9400°
1400-1700 B 21465° 15030 9400 (Spanish weekdays)
1700-2100 B 21465° 15030 9400°
2100-0400 B 21465° 15030 9400° 7375

CROATIA Croatian R Zagreb
0605-0615 C 9830 5920
2103-2113 C 13830 9830

CUBA R Havana
0000-0200 B 13700° 6010
0200-0500 B 9820 6010 [& 9550 0400-]
0500-0600 B 9820
2100-2200 B 17760
2200-2300 B 9550

CZECH REPUBLIC R Prague
0000-0027 B 9485 7345
0100-0130 B 9485 7345

0300-0330 B 7345 5930
0330-0400 B 11640 9440 5930

ECUADOR HCJB [17490° "on most releases"]
0030-0430 A 11925 9745 [& 21455° -0500]
0500-0700 B 21455° 11925
0700-0730 B 21455° 11835 9600
0705-0730 B 11925 9745
0730-0830 B 21455° 11925 11835 9745 9600
0830-1130 B 21455° 11925 9745
1130-1430 B 21455° 17890 15115 11925
1430-1600 B 17890 11925 [& 21455° -1700]
1700-1800 C 17790 15270 [& 21455° -1900]
1900-2000 C 17790 15270 [& 21455° -2130]
2130-2200 C 15270 11835 [& 21455° -2300]

EGYPT R Cairo
0200-0330 B 11600 9475
1215-1330 C 17595
1630-1830 C 15255
2030-2200 C 15375
2115-2245 C 9900

FINLAND R Finland [Freq info 1-800-221-9539
1130-1200 B 15400 11900 except Sun in the USA]
1230-1300 B 15400 11900
1330-1400 B 15400 11900

FRANCE R France Int'l
1200-1300 B 17575 15530 15425 15180 11670 13640
1400-1500 B 17695 12030
1600-1700 B 17850 17620 15330 12015 11700 11615 6175

GERMANY Deutsche Welle
0100-0150 A 11865 11740 9700 6145 6085 6040
0200-0250 C 15185 12045 11965 11945 9690 9615 9580 7285
0300-0350 A 11750 9700 9640 9535 6185 6085
0400-0450 C 9765 9565 7225 7150 6185 6015 5980
0500-0550 A 11705 9670 9515 5960
1500-1550 C 21600

GREECE V of Greece
0130-0150 B 11645 9420 9380 Mon-Sat
0340-0350 B 11645 9420 9380 Mon-Sat
1335-1350 B 17520 15630
2000-2010 C 9395

GUAM KSDA
0200-0300 C 13720 Sat-Sun
1600-1700 C 7455
1700-1800 C 13720 Sat-Sun
2300-2400 C 15610

GUAM KTWR
0600-0915 C 15200
0900-1000 C 11805
1500-1700 C 12025
2230-2315 C 15485 Fri-Sat unconfirmed

GUATEMALA TGNC
0300-0430 C 3300 [Sun 2345-]

HAWAII KWHR NAE
0000-0400 C 17510
0400-0800 C 17780
0800-1600 C 9930
1600-1800 C 7425
1800-2000 C 13625
2000-2200 C 15405
2200-2400 C 17645

HONDURAS HRJA R Copan Int'l NAE
1400-1500 C 15675 Mon-Sat
1800-1900 C 15675 Sun
1900-2000 C 15675 Tue/Fri/Sun
2000-2200 C 15675 Mon-Sat
2200-2300 C 15675 Mon-Fri
2300-2400 C 15675 Sun

HUNGARY R Budapest
0100-0127 B 11910 9835 6025
0230-0257 B 11910 9835 5970

INDIA All India R
1000-1100 C 21735 17895 17387 15050
1330-1500 C 15120 11760
1745-1945 C 15080 11935 11860 11620 9950 7412
2045-2230 C 15265 11715 11620 9950 9910 7412
2245-2445 C 15145 15110 11745 11715 9910

INDONESIA Voice of Indonesia
0100-0200 D 11752 9675
0800-0900 D 11752 9675
2000-2100 D 11752 9675

IRAN R Tehran
0030-0130 C 9022 7100
1530-1630 C 11790 9575
1930-2030 C 15260 9022

IRAQ R Iraq Int'l
1400-1600 C 15205?
1800-2245 C 11810 [& 13680 -2145] NAE
2200-0300 C 17940 15205 15180 NAE

ISRAEL Kol Israel
0400-0415 C 17545 11605 9435
1000-1030 C 17575 15650 15640
1300-1325 C 15650 15640 Sun-Thu
1900-1930 C 17575 15640 11675 11603 9435
2130-2200 B 17575 11675 11603 9435 7465

ITALY RAI
0050-0110 B 11800 9725 6005

JAPAN R Japan
0100-0200 B 17845 17810 15195 11910 11860 11840 9610 5960
0300-0400 C 17845 17810 15210 9610 [& 15230 11885 11880 -0330]
0500-0600 B 17810 15410 11885 11740 9725 9610 7230 5975
0700-0800 C 21610 17810 15410 15380 15270 11740 7230 5975
0900-1000 C 15295 15270 11815 9750 9610
1100-1200 B 15295 11815 9750 9610 6120
1400-1500 B 11915 11840 11705 9750 9535
1500-1600 B 15355 11955 9750 9535
1700-1800 C 11930 9580 9535 6150
1900-1930 C 9610 9580 9535 6150
2100-2200 C 11925 9580 9535 7140 6150 6035
2300-2400 C 9750 9625 9610 7140 6185 6125 5975

JORDAN R Jordan
1200-1300 D 9560
1500-1730 D 9560

KOREA NORTH R Pyongyang
0000-0050 C 15130 13760 11335
0800-0850 C 15230 15180
1100-1150 B 11335 9977 6576
1300-1350 C 15230 13760 11740 9640 9345
2300-2350 C 13650 11700

KOREA SOUTH R Korea
0100-0200 C 15575
0600-0700 C 15155 11945
1030-1100 B 11715
1200-1300 C 7180

KUWAIT R Kuwait
1800-2100 C 11990

LITHUANIA R Vilnius
2300-2330 B 11770 NAE but AE Sat & Sun
MALAYSIA V of Malaysia
0555-0825 C 15295 9750 6175
MALTA V of Mediterranean
0600-0800 C 9765
MEXICO R Educacion
0000-1200 C 6185 NAE [EG sporadic]
MONACO TWR
0640-0820 B 7385 [Sun -0845]
MONGOLIA R Ulan Bator
0910-0940 D 12015 11850 Mon/Thu/Sat
1200-1230 D 12015 11850 Mon/Thu/Sat
1445-1515 D 7780 7260 Mon/Thu/Sat
1940-2010 D 11850 11790 Mon/Thu/Sat
NETHERLANDS R Netherlands
0030-0325 C 12025 9860
0330-0425 A 9590 6165
0730-1025 B 9720 [& 9630 -0825; 9810 0930-]
0830-1025 C 9895 5955
0930-1125 C 15470 12065
1130-1325 C 9650 5955
1330-1625 C 15150 13700 9890 [& 5955 1530-]
1730-2025 C 17655 [& 21590 7120 6020 -1925; 17605 1930-]
2330-0125 A 6165 6020 [& 9840 0030-]
NEW ZEALAND R New Zealand Int'l
0459-0758 B 11900 [end time may vary Sat-Sun]
0759-1206 B 6100 [start time may vary Sat-Sun]
1207-1649 B 6100 occasional
1650-1849 C 6100 Mon-Fri
1850-2136 C 11735
2137-0458 C 15115
NIGERIA V Of Nigeria
0500-0700 C 7255
N MARIANA ISLANDS KHBI Saipan NAE
0000-0400 C 17865a 17555a
0400-0600 C 17865a 17780a
0600-0800 C 17780a 13615a
0800-0900 C 17555a 13615
0900-1000 C 17555 13615
1000-1100 C 17555a 13625 9430
1100-1200 C 17555a 13625a 9430a 9425
1200-1300 C 13625 9425 9355a
1300-1400 C 13625 9425a 9355a
1400-1600 C 13625a 9430a 9355
1600-1800 C 13625 11580a 9430a 9355
1800-2000 C 13770 9355
2000-2100 C 13840a 13625 9430a
2100-2200 C 13840 13625 9430a
2200-2400 C 15405 13625 9430
NORWAY R Norway Int'l
0100-0130 B 11925 9560 Mon
0500-0530 B 11865 9565 Sun
2300-2330 B 11860 Sun
PAKISTAN R Pakistan
0230-0245 C 21730 17725 17705 15190 7290
0800-0850 C 21520 17900
1100-1120 C 21520 17900
1600-1630 C 17660 15675 15555 13590 11570 9470
1700-1750 C 11570 7485
PALAU KHBN NAE
0000-0100 C 17630 15140a 9830
0100-0700 C 17630 [15140a -0600]
0700-1200 C 17630 9830
1200-1600 C 9965 9830
1600-1900 C 9965
2000-2100 C 15140a 9830
2100-2400 C 15140a 9965 9830
PAPUA NEW GUINEA NBC Port Moresby
fade-1400 C 4890
PHILIPPINES FEBC
0000-0200 C 15450 [Sat-Sun -0130]
0900-1100 C 11690
1300-1600 C 11995
PHILIPPINES R Pilipinas
0230-0330 C 21580 17840 17760
POLAND Polish R Warsaw
1200-1255 C 11815 9525 7270 7145 6135
1500-1555 D 9525 7285
1700-1755 D 9525 7285 7270
1930-2025 D 9525 7285 6135
PORTUGAL R Portugal Int'l
0130-0200 B 11840 9705 9600? 9570 9555? Tue-Sat
1530-1600 C 21515 Mon-Fri
1900-1930 C 17680 11975 9815 9780 Mon-Fri
ROMANIA R Romania Int'l
0200-0255 C 11940 11830 9570 9510 6155
0400-0430 C 11940 11830 9570 9510 6155
0632-0645 C 9510
2100-2200 C 7195 7105 6105 5990
RUSSIA R Moscow
0000-0200 B 15425 11805 11750 9765 9530
0200-0300 B 15425 11805 9765 9685 9530
0300-0500 B 15425 12070 9880 9750 9685 9530 [& 9655 0400-]
0500-0600 B 15590 15420 9880 9750 9685 9655 9530
0600-0700 C 15590 15420 12010 9750
0900-1000 C 15355 15105 12010 11705
1000-1100 C 21785 17815 17780 17675 17645 17580 15485 15470 15455 15440 15355 15320 15105 12055 12020 12010 11805 11705
1100-1200 C 21785 17815 17780 17675 17670 15590 15525 15485 15470 15440 15420 15395 15355 15320 15305 15280 15125 15105 12055 12020 11985 11705
1200-1300 C 21785 21630 17815 17780 17675 17670 17645 17590 17560 15525 15485 15470 15455 15440 15395 15355 15320 15305 15290 15280 15170 15125 15105 12055 11985 11935 11705
1300-1400 C 21785 21630 15485 15470 15440 15355 15320 15290 15125 15105 12025 11985 11935 9540
1400-1500 B 21785 21630 15580 15485 15455 15355 15320 15290 15125 15105
1500-1600 B 15320 15290 15105
1600-1700 B 15520 15320 15290 15180 15105 11630
1700-1900 B 15520 15500 15290 15180 15105 9880 [& 11630 1800-]
1900-2000 B 17760 15520 15500 15480 15290 15105 11630 9880 9510
2000-2100 B 15290 11630 9880 9510
2100-2200 B 15290 12065 11805 11770 11760 11730 11630 9880 9510 7380
2200-2300 B 15290 12065 11805 9470
2300-2400 B 12065 11805
SERBIA R Yugoslavia
0100-0130 B 11870 9580 except Mon
0430-0500 B 11870 9580

SEYCHELLES FEBA
 0457-0553 C 17750 Fri
 1458-1555 C 11870 [Sat -1550; Sun -1558]
 1458-1600 C 9810 [& 7205 -1543] Mon-Sat
SINGAPORE R Singapore Int'l
 0000-0100 D 9530 (may be off)
 1100-1400 C 9530
SLOVAKIA AWR Europe
 0100-0200 C 9465
 0400-0500 C 11610 9455
 0600-0700 C 13715
 0730-0800 C 7180
 1400-1500 C 13595
 1700-1800 C 15625 13595
 2000-2100 C 6055
 2200-2300 C 11610
SLOVAKIA R Slovakia Int'l
 0100-0130 B 9810 7310 5930
SOUTH AFRICA Channel Africa
 0300-0500 C 5955 3220
 0500-0600 C 9695 5955
 0600-0700 C 15220 5955
 1000-1100 C 17810
 1100-1200 C 9730
 1500-1800 C 11770 4945
SPAIN Spanish National R
 0000-0200 A 9540
 0500-0600 A 9540
SRI LANKA SLBC
 0445-0515 C 15425 9720 Tue
 2330-2400 C 15425 Mon
SUDAN Nat'l Unity Radio
 1500-1530 C 9165
SWEDEN R Sweden
 0030-0100 C 9850 6065
 0230-0300 B 9850 6040
 0330-0400 B 9850 6040
 1230-1300 B 17870 15240
 1330-1400 B 17870 15240
SWITZERLAND Swiss R Int'l [possible changes early June]
 0100-0130 B 9885 6135 5905
 0400-0430 B 9885 9860 6135
 0600-0630 C 15430 13635 9885 6165 3985
 0900-0930 C 17515 13685 9885
 1100-1130 C 17515 15505 13635
 1300-1330 C 15505 13635 11690 7480
 1500-1530 C 15505 13635 11690
 1700-1730 C 15635 13635 9885
 2000-2030 C 15505 13635 9885 6135
SYRIA R Damascus
 2005-2105 C 15095 12085
 2110-2210 C 15095 12085
TAIWAN Voice of Free China [via WYFR]
 0200-0400 B 9680 5950 [& 11740 -0300]
 0700-0800 B 5950
 2200-2300 B 21720 17750
THAILAND
 1130-1230 C 11905 9655 4830
TURKEY V of Turkey
 0300-0350 C 9445
 2000-2050 C 9900
 2200-2250 C 11710 9445 7185
UKRAINE R Ukraine Int'l
 0000-0100 B 15580 15180 12030 11720 9860 9685 7285
 0300-0400 B 15580 15180 12030 11720 9860 9685 7285
 2100-2200 C 12030 11950 11780 11705 11610 9640
UNITED ARAB EMIRATES Abu Dhabi
 2200-2400 C 13605 11885 9770
UNITED ARAB EMIRATES Dubai
 0330-0400 C 15400 13675 11945
UNITED KINGDOM BBC
 0000-0200 A 15260 11750 9915 9590* 7325 6175 5975 [*breaks away Tue-Sat 0145-0200 for Caribbean Service repeat]
 0200-0330 A 15260 9915 7325 6175 5975 [& 9590 -0230]
 0330-0500 A 5975
 0500-0815 A 9640 [& 5975 -0600]
 0900-1100 C 15190
 1100-1200 A 9740 9515 6195 5965 [& 17790 -1130]
 1200-1300 A 15220 9740 9515 6195
 1300-1400 A 15220 11820 9740 9515 6195
 1400-1500 A 17840 11820 9740 9515
 1500-1600 A 17840 15260 9515 [& 9740 -1515]
 1600-1715 A 15260 9515 [& 17840 -1615]
 2000-2100 B 15260
 2100-2200 B 15260 5975
 2200-2300 A 15260 9915 9590 5975
 2300-2400 A 15260 9915 9590 6175 5975
UNITED KINGDOM BBC Caribbean
 2115-2130 B 17715 15390 6110 Mon-Fri
UNITED STATES KCBI
 0000-0200 B 13740
 0300-1400 B 9815
 1500-2330 B 15725
UNITED STATES KGEI
 2200-2230 B 15280 Sun
UNITED STATES KJES NAE
 1300-1600 B 11715
 1800-1900 B 15385
 2000-2100 B 15385
UNITED STATES KTBN
 0100-1600 B 7510
 1500-0100 B 15590
UNITED STATES KVOH NAE
 0300-0800 B 9785 [13695a -0400]
 1200-0300 B 17775 [13695a 0100-]
UNITED STATES Organization of American States
 2245-2300 A 15155 11730 9670 Mon-Fri
UNITED STATES VOA Africa
 0300-0400 B 9885 9575 7430 7405 7280 7265 7105
 0400-0500 B 9575 7405 7280 7265
 0500-0600 B 15600 12080 9665 7405 6035
 0600-0700 B 15600 12080 11950 9665 9530 7405 6035 [& 12035 -0630]
 1600-1800 C 15445 15410 13710 12040 [& 15225 -1700] [Sat-Sun 1630-]
 1800-1900 B 15580 15410 13710 13680 12040 7415
 1900-2000 B 15580 15445 15410 13710 12040 7415
 2000-2100 B 15580 15445 15410 13710 7415 [& 15160 11820 -2030]
 2100-2130 B 15580 15445 15410 13710 9535 7415
 2130-2200 B 15580 15445 15410 13710 7415 Sun-Fri
UNITED STATES VOA Americas
 0000-0200 A 15205 15120 11580 9775 9455* 7405 6130* 5995 [& 11695* -0100] [*different pgms 0030-0100 to Caribbean]
 0200-0230 A 15205 15120 11580 9775 7405 5995 Tue-Sat

1000-1200 A 15120 11915 9590 7405
UNITED STATES VOA Asia-Pac
0000-0100 C 17735 15290 15185 11760 9770 7215
0100-0300 B 17740 15250 15170 11705 7651° 7205 7115
1000-1100 B 15425 11720 9585
1100-1200 B 15425 15160 11720 9760 6110 5985
1200-1230 B 15425 15160 11715 9760 6110
1230-1330 B 15425 15160 11805 11715 9760 6110
1330-1400 C 15425 15160 9760 6110
1400-1430 C 15425 15395 15225 15160 9760 9645 7125 6110
1430-1500 C 15425 15395 15225 15160 9760 9645 7215 6110
1500-1600 C 15395 15225 9760 9645 7215 7125 6110
1600-1700 C 15395 15255 9760 9645 7125 6110
1700-1800 C 15395 15255 9645 7215 7125 6110
1900-2000 C 15180 11870 9525
2100-2200 C 17735 15185 11870
2200-2400 C 17735 15305 15290 15185 11760 9770 7215 [& 7105 -2300]
UNITED STATES VOA Middle East
0400-0500 C 15205 11965 7200 7170 6873°° 6040 6010 5995
0500-0600 C 15205 11965 7200 7170 6873°° 6140 6040 5995
0600-0700 C 11965 11805 7325 7170 6873°° 6140 6060 6040 5995
1400-1500 C 15255
1500-1630 C 15255 15205 9700
1630-1700 C 17735 15255 15245 15205 9700 6040
1700-1800 C 15255 15205 9760 6040
1800-2100 C 15205 9770 9760 6040
2100-2200 C 15205 9760 9535 6160 6040
UNITED STATES WCSN NAE
0000-0600 B 9855 [9455a 0200-0300]
0600-0700 B 9870 7535
0700-0900 B 9870a 7535a
0900-1200 B 9870a
1200-1400 B 15665a 11745
1400-1600 B 15665 11745
1600-1800 B 21640a 17510a 15665
1800-2000 B 21640 17510
2000-2200 B 13770 7510a
2200-2400 B 9855 9465a 7510a
UNITED STATES WEWN NAE
0000-0100 A 15695a 12160a 9985 9410 7425 5825a
0100-0200 A 13710 12160a 9985 9410 7425 5825a
0200-0500 A 9985 9370a 9350 7520a 7425 5825
0500-0600 A 9985 9370a 9350 7465a 7425 5825
0600-0800 A 9985 9350 7465 7425 5825a
0800-0900 A 12160a 9985a 9350 7465
0900-1000 A 12160a 9985a 9350
1000-1200 A 12160a 9985 9370 9350
1200-1300 A 15695 13710 12160a 9985 9350
1300-1400 A 15695 13710 12160a 9350
1400-1500 A 18930 17510 15695a 9350
1500-1600 A 21710a 18930 17510 15695a 9350
1600-1700 A 21710a 18930 15695 13615
1700-1800 A 21710a 18930 15695 13615 11735a
1800-2000 A 18930 17612½a 15695 13615 11735a
2000-2100 A 18930 17510a 15695 13740 13615 12160a
2100-2200 A 18930 17510a 15695 13740 13615 12160a 9985 9370a
2200-2300 A 17760a 15695 13740 13615 11820 9985 9370 5825a
2300-2400 A 17760a 17510a 15695a 13710a 13615 11820 9985 5825a
UNITED STATES WHRI #1 NAE
0800-1000 B 7355 [Sun -1100]
1000-1300 B 9850 except Sun
1300-1400 B 11790 [Sun 1100-]
1400-1800 B 15105
1800-2300 B 9485
2300-0800 B 9495
UNITED STATES WHRI #2 NAE
1300-1700 B 9465 [Sun -1600]
1700-2300 B 13760 [Sun 1600-]
2300-1300 B 7315
UNITED STATES WINB NAE
0000-1100 B 11950
1600-2400 B 15715
UNITED STATES WJCR
24 hours B 13595 7490
UNITED STATES WMLK NAE
0400-0700 B 9465 Mon-Sat
1700-2000 B 9465 Sun-Fri
UNITED STATES WRNO NAE [schedule is erratic]
0300-0700 B 7395
1500-2300 B 15420
2300-0300 B 7355
UNITED STATES WSHB NAE
0000-0300 A 9430 5850
0300-0400 A 9430a 7465a 5850
0400-0500 A 9430a 7465 5850a
0500-0600 A 9430a 5850a
0600-0800 A 9840 7520 7365a 5850a
0800-0900 A 9840a 7395a
0900-1000 A 9840 7395
1000-1200 A 9455a 7465 7395
1200-1300 A 13760a 9455 7465
1300-1400 A 13760a 7465
1400-1500 A 13710a 11900 9455
1500-1600 A 13710a 11900a 9455a
1600-1700 A 13710a 13695a
1700-1800 A 17555a 13710 13695a
1800-1900 A 17555a 15665a 13695a
1900-2000 A 17555a 15665 13695a
2000-2200 A 17555a 15665
2200-2400 A 17555 13770 9355 5850a
UNITED STATES WWCR #1 NAE
0000-0800 B 7435
1000-2400 B 15685
UNITED STATES WWCR #2
0200-1200 B 5935
1200-0200 B 13845
UNITED STATES WWCR #3 NAE
1300-2200 B 15610
2200-2300 B 12160
2300-1300 B 5810
UNITED STATES WYFR
0000-0045 A 6085
0100-0445 A 9505 6065 [& 15440 -0245]
0500-0600 A 11580 9870
0600-0745 A 13695 11770 7355
1000-1100 A 5950
1100-1200 A 11830 5950
1200-1300 A 17750 11830 5950 6015
1300-1400 A 17750 13695 11830 6015 5950
1400-1500 A 17750 11830 [& 6015 -1445]

1500-1700 A 17750 11830 11705
1700-1900 A 21500
1900-2000 A 21615 15355
2000-2200 A 21615 21525 17612½ 15355 15566
2200-2245 A 21525 17612½

UZBEKISTAN R Tashkent
1200-1225 C 17815 15295 9540 5945
1330-1355 C 17815 15295 9540 5945

VATICAN Vatican R
0140-0200 C 9650 7335
0250-0310 B 9605 7305
0600-0620 C 7250 6245
0630-0700 C 15090 11625 9695
1730-1800 C 15090 11625 9695
2000-2030 C 15090 11625 9645
2245-2305 C 11830 9600 6250

VENEZUELA R Nat'l de Venezuela
0040-0055 C 9435v unintelligible
0340-0355 C 9435v unintelligible
1140-1155 C 9435v unintelligible
1440-1455 C 9435v unintelligible
1840-1855 C 9435v unintelligible
2140-2155 C 9435v unintelligible

VIETNAM V of Vietnam
1000-1030 C 12020 9840
1100-1130 C 9840 7287
1230-1300 C 12020 9840
1330-1400 C 12020 9840
1600-1630 D 12020 9840
1800-1830 D 12020 9840
1900-1930 D 12020 9840
2030-2100 D 12020 9840
2330-2400 D 12020 9840

YEMEN Yemeni Republic R
2100-2130 C 9780v [time varies] (probably off)

ZAMBIA R Zambia
0300-fade C 7235v

0000-0027 B Prague 9485 7345
0000-0030 C Australia 17860 17795 17750 15510 15365 15240 13775 13605
0000-0045 A WYFR 6085
0000-0050 C Pyongyang 15130 13760 11335
0000-0100 B China 11715 9780
0000-0100 C AWR LAm 13750 9725 5030
0000-0100 C KHBN Palau 15140a 17630 9830 NAE
0000-0100 D Singapore 9530
0000-0100 B Ukraine 15580 15180 12030 11720 9860 9685 7285
0000-0100 C VOA Asia-Pac 17735 15290 15185 11760 9770 7215
0000-0100 A WEWN 15695a 12160a 9985 9410 7425 5825a NAE
0000-0200 B Havana 13700° 6010
0000-0200 C FEBC Philippines 15450 [Sat-Sun -0130]
0000-0200 B Moscow 15425 11805 11750 9765 9530
0000-0200 A Spanish Nat'l R 9540
0000-0200 A BBC 15260 11750 9915 9590* 7325 6175 5975 [*breaks away Tue-Sat 0145-0200for Caribbean Service repeat]
0000-0200 B KCBI 13740
0000-0200 A VOA Americas 15205 15120 11580 9775 9455* 7405 6130* 5995 [& 11695* -0100] [*different pgms 0030-0100 to Caribbean]
0000-0300 A WSHB 9430 5850 NAE
0000-0400 C KWHR Hawaii 17510 NAE
0000-0400 C KHBI Saipan 17865a 17555a NAE
0000-0600 B WCSN 9855 [9455a 0200-0300] NAE
0000-0800 B WWCR #1 7435
0000-1100 B WINB 11950
0030-0100 C Australia 17780 17860 17750 15510 15415 15365 15240 13605 11880 11720
0030-0100 C Sweden 9850 6065
0030-0130 C Tehran 9022 7100
0030-0325 C Netherlands 12025 9860
0030-0430 A HCJB 17490° 11925 9745 [& 21455° -0500]
0040-0055 C Venezuela 9435v unintelligible
0050-0110 B RAI Italy 11800 9725 6005
0100-0127 B Budapest 11910 9835 6025
0100-0130 B Canada 11940 11845 9535 [Sun-Mon -0200]
0100-0130 B Prague 9485 7345
0100-0130 B Norway 11925 9560 Mon
0100-0130 B Yugoslavia 11870 9580 except Mon
0100-0130 B Slovakia 9810 7310 5930
0100-0130 B Swiss R Int'l 9885 6135 5905
0100-0150 A Deutsche Welle 11865 9700 9650 6145 6120 6085 6040
0100-0200 B Canada 9755 6120 [& 11845 -0130]
0100-0200 D Indonesia 11752 9675
0100-0200 B Japan 17845 17810 15195 11910 11860 11840 9610 5960
0100-0200 C S Korea 15575
0100-0200 C AWR Europe 9465
0100-0200 A WEWN 13710 12160a 9985 9410 7425 5825a NAE
0100-0300 B VOA Asia-Pac 17740 15250 15170 11705 7651° 7205 7115
0100-0400 C Australia 17880 17860 17750 17630 15425 15365 13605
0100-0445 B WYFR 9505 6085 [& 15440 -0245]
0100-0700 C KHBN Palau 17630 [15140a -0600] NAE
0100-1500 B KTBN 7510
0130-0150 B Greece 11645 9420 9380 Mon-Sat
0130-0200 B Tirana 11840 9580
0130-0200 B Austria 13730 9870 9655
0130-0200 B Portugal 11840 9705 9600? 9570 9555? Tue-Sat
0140-0200 C Vatican 9650 7335
0200-0230 A VOA Americas 15205 15120 11580 9775 7405 5995 Tue-Sat
0200-0250 C Deutsche Welle 15185 12045 11965 11945 9690 9650 9615 7355 7285
0200-0255 C Romania 11940 11830 9570 9510 6155
0200-0300 C Argentina 11710 Tue-Sat
0200-0300 B Canada 11940 11845 9755 9535 6120
0200-0300 C KSDA Guam 13720 Sat-Sun
0200-0300 B Moscow 15425 11805 9765 9685 9530
0200-0330 B Cairo 11600 9475
0200-0330 A BBC 15260 9915 7325 6175 5975 [& 9590 -0230]
0200-0400 B Voice of Free China 9680 5950 [& 11740 -0300]
0200-0500 B Havana 9820 6010 [& 6180 0400-]
0200-0500 A WEWN 9985 9370a 9350 7520a 7425 5825 NAE
0200-1400 B WWCR #2 5935
0230-0245 B Tirana 11840 9580

0230-0245 C Pakistan 21730 17725 17705 15190 7290
0230-0257 B Budapest 11910 9835 5970
0230-0300 B Sweden 9850 6040
0230-0330 C Pilipinas 21580 17840 17760
0244-0257 C Yerevan 17690 17605 10344° 7105
0250-0310 B Vatican 9605 7305
0300-0330 B Prague 7345 5930
0300-0350 A Deutsche Welle 11715 9700 9640 9545 6185 6120
0300-0350 C Turkey 9445
0300-0400 B China 11715 9780 9690
0300-0400 C Japan 17845 17810 15210 9610 [& 15230 11885 11880 -0330]
0300-0400 B Ukraine 15580 15180 12030 11720 9860 9685 7285
0300-0400 B VOA Africa 9885 9575 7430 7405 7280 7265 7105
0300-0400 A WSHB 9430a 7465a 5850 NAE
0300-0430 C TGNC Guatemala 3300 [Sun 2345-]
0300-0500 B Moscow 15425 12070 9880 0750 9685 9530 [& 9655 0400-]
0300-0500 C Channel Africa 5960 3220
0300-0700 B WRNO 7395 NAE
0300-0800 B KVOH 9785 [13695a -0400] NAE
0300-1400 B KCBI 9815
0300-fade C Zambia 7235v
0330-0400 B Austria 13720 9870
0330-0400 B Prague 11640 9440 5930
0330-0400 B Sweden 9850 6040
0330-0400 C Dubai 15400 13675 11945
0330-0425 B Netherlands 9590 6165
0330-0430 B Bulgaria 11720 9700
0330-0500 A BBC 5975
0340-0350 B Greece 11645 9420 9380 Mon-Sat
0340-0355 C Venezuela 9435v unintelligible
0400-0415 C Israel 17545 11605 9435
0400-0430 C Canada 15275 11925 11905 9650
0400-0430 C Romania 11940 11830 9570 9510 6115
0400-0430 B Swiss R Int'l 9885 9860 6135
0400-0450 C Deutsche Welle 9765 9565 7225 7150 6185 6015 5980
0400-0500 B China 11680
0400-0500 C AWR Europe 11610 9455
0400-0500 B VOA Africa 9575 7405 7280 7265
0400-0500 C VOA ME 15205 11965 7200 7170 6873°° 6040 6010 5995
0400-0500 A WSHB 9430a 7465 5850a NAE
0400-0530 C Australia 17760 17750 17630 15415 15365 13605 [& 17880 0500-]
0400-0600 C KHBI Saipan 17865a 17780a NAE
0400-0700 B WMLK 9465 Mon-Sat NAE
0400-0800 B RFPI Costa Rica 15030 9400° 7375
0400-0800 C KWHR Hawaii 17780 NAE
0430-0500 B Yugoslavia 11810 9580
0445-0515 C Sri Lanka 15425 9720 Tue
0457-0553 C FEBC Seychelles 17750 Fri
0459-0758 B New Zealand 11900 [end time may vary Sat-Sun]
0500-0530 B Canada 17840 15430 7295 6150 6050
0500-0530 B Norway 11865 9565 Sun
0500-0550 A Deutsche Welle 11705 9670 9515 5960
0500-0600 A China 11840
0500-0600 B Havana 9820
0500-0600 B Japan 17810 15410 11885 11740 9725 9610 7230 5975
0500-0600 B Moscow 15590 15420 9880 9750 9685 9655 9530
0500-0600 C Channel Africa 9695 5955
0500-0600 A Spanish Nat'l R 9540
0500-0600 A VOA Africa 15600 12080 9665 7405 6035
0500-0600 C VOA ME 15205 11965 7200 7170 6873°° 6140 6040 5995
0500-0600 A WEWN 9985 9370a 9350 7465a 7425 5825 NAE
0500-0600 A WSHB 9430a 5850a NAE
0500-0600 B WYFR 11580 9870 5985
0500-0700 B HCJB 21455° 17490° 11925
0500-0700 C Nigeria 7255
0500-0815 A BBC 9640 [& 5975 -0600]
0530-0600 C Australia 17860 17630 15415 15365 13605
0530-0600 A Austria 6015
0555-0825 C Malaysia 15295 9750 6175
0600-0620 C Vatican 7250 6245
0600-0630 C Australia 17780 17670 17630 13605
0600-0630 C Swiss R Int'l 15430 13635 9885 6165 3985
0600-0700 C S Korea 15155 11945
0600-0700 C Moscow 15590 15420 12010 9750
0600-0700 C AWR Europe 13715
0600-0700 C Channel Africa 15220 5955
0600-0700 B VOA Africa 15600 12080 11950 9665 9530 7405 6035 [& 12035 -0630]
0600-0700 C VOA ME 11965 11805 7325 7170 6873°° 6140 6060 6040 5995
0600-0700 A WCSN 9870 7535
0600-0745 B WYFR 13695 11770 7355
0600-0800 C V of Mediterranean 9765
0600-0800 C KHBI Saipan 17780a 13615a NAE
0600-0800 A WEWN 9985 9350 7465 7425 5825a NAE
0600-0800 A WSHB 9430a 7520 7365a 5850a NAE
0600-0915 C KTWR Guam 15200
0605-0615 C Croatian R Zagreb 9830 5920
0630-0655 C Vlaanderen 9925 6015
0630-0700 C Australia 21725 17880 17795 17670 15240 13605 11910 11880 11720 9860 9580
0630-0700 A Austria 6015
0630-0700 C Vatican R 15090 11625 9695
0632-0645 C Romania 9510
0640-0820 B TWR Monaco 7385 [Sun -0845]
0700-0730 B Australia 21725 17795 17750 17695 15240 13605 11910 11880 11720 9860 9580
0700-0730 B HCJB 21455° 17490° 11835 9600
0700-0800 C Japan 21610 17810 15410 15380 15270 11740 7230 5975
0700-0800 C AWR Europe 7180
0700-0800 B Voice of Free China 5950
0700-0900 B WCSN 9870a 7535a
0700-1200 C KHBN Palau 17630 9830 NAE
0705-0730 B HCJB 11925 9745
0730-0830 B HCJB 21455° 17490° 11925 11835 9745 9600
0730-0900 B Australia 21725 17750 17695 15240 11910 11720 9860 9580 6080 6020 [& 11880 -0800]
0730-1025 B Netherlands 9720 [& 9630 -0825; 9810 0930-]
0759-1206 B New Zealand 6100 [start time may

vary Sat-Sun]
0800-0850 C Pakistan 21520 17900
0800-0805 C Pyongyang 15230 15180
0800-0900 C KNLS Alaska 9615 NAE
0800-0900 D Indonesia 11752 9675
0800-0900 C KHBI Saipan 17555a 13615 NAE
0800-0900 A WEWN 12160a 9985a 9350 7465 NAE
0800-0900 A WSHB 9840a 7395a NAE
0800-1000 B WHRI #1 7355 [Sun -1100] NAE
0800-1200 B RFPI Costa Rica 15030 9400°
0800-1600 C KWHR Hawaii 9930 NAE
0830-1025 C Netherlands 9895 5955
0830-1130 B HCJB 21455° 17490° 11925 9745
0900-0930 C Swiss R Int'l 17515 13685 9885
0900-1000 B Australia 21725 17750 15170 13605 9860 9580 9510
0900-1000 C KTWR Guam 11805
0900-1000 C Japan 15295 15270 11815 9750 9610
0900-1000 C KHBI Saipan 17555 13615 NAE
0900-1000 C Moscow 15355 15105 12010 11705
0900-1000 A WEWN 12160a 9985a 9350 NAE
0900-1000 A WSHB 9840 7395 NAE
0900-1100 C FEBC Philippines 11690
0900-1100 C BBC 15190
0900-1200 B WCSN 9870a NAE
0910-0940 D Ulan Bator 12015 11850 Mon/Thu/Sat
0930-1125 C Netherlands 15470 12065
1000-1030 C Israel 17575 15650 15640
1000-1030 C Vietnam 12020 9840
1000-1100 B Australia 21725 15170 9860 9580
1000-1100 C India 21735 17895 17387 15050
1000-1100 C KHBI Saipan 17555a 13625 9430 NAE
1000-1100 C Moscow 21785 17815 17780 17675 17645 17580 15485 15470 15455 15440 15355 15320 15105 12055 12020 12010 11805 11705
1000-1100 C Channel Africa 17810
1000-1100 B VOA Asia-Pac 15425 11720 9585
1000-1100 B WYFR 5950
1000-1200 A VOA Americas 15120 11915 9590 7405
1000-1200 A WEWN 12160a 9985 9370 9350 NAE
1000-1200 A WSHB 9455a 7465 7395 NAE
1000-1300 B WHRI #1 9850 except Sun NAE
1000-2400 B WWCR #1 15685
1030-1100 B S Korea 11715
1100-1120 C Pakistan 21520 17900
1100-1130 C Swiss R Int'l 17515 15505 13635
1100-1130 C Vietnam 9840 7287
1100-1150 B Pyongyang 11335 9977 6576
1100-1200 B Australia 21725 15565 15170 13605 9860 9580 9510
1100-1200 B Japan 15295 11815 9750 9610 6120
1100-1200 C KHBI Saipan 17555a 13625a 9430a 9425 NAE
1100-1200 C Moscow 21785 17815 17780 17675 17670 15590 15525 15485 15470 15440 15420 15395 15355 15320 15305 15280 15125 15105 12055 12020 11985 11705
1100-1200 C Channel Africa 9730
1100-1200 A BBC 9740 9915 6195 5965 [& 17790 -1130]
1100-1200 B VOA Asia-Pac 15425 15160 11720 9760 6110 5985
1100-1200 A WYFR 11830 5950
1100-1300 C AWR LAm 13750 9725 5030
1100-1300 C Singapore 9530
1130-1200 C Austria 13730
1130-1200 B Finland 15400 11900 except Sun
1130-1325 C Netherlands 9650 5955
1130-1430 B HCJB 21455° 17890 17490° 15115 11925
1130-1230 C Thailand 11905 9655 4830
1140-1155 C Venezuela 9435v unintelligible
1200-1225 C Tashkent 17815 15295 9540 5945
1200-1230 D Ulan Bator 12015 11850 Mon/Thu/Sat
1200-1230 B VOA Asia-Pac 15425 15160 11715 9760 6110
1200-1255 C Warsaw 11815 9525 7270 7145 6135
1200-1300 B Australia 15565 15170 11800 7240 6080 6020 5995
1200-1300 C Bulgaria 17625
1200-1300 B Canada 17820 11855 9635 Mon-Fri
1200-1300 C China 15440 9655
1200-1300 B France 17575 15530 15425 15180 11670
1200-1300 D Jordan 9560
1200-1300 C S Korea 7180
1200-1300 C KHBI Saipan 13625 9425 9355a NAE
1200-1300 C Moscow 21785 21630 17815 17780 17675 17670 17645 17590 17560 15525 15485 15470 15455 15440 15395 15355 15320 15305 15290 15280 15170 15125 15105 12055 11985 11935 11705
1200-1300 A BBC 15220 9740 9515 6195
1200-1300 A WEWN 15695 13710 12160a 9985 9350 NAE
1200-1300 A WSHB 13760a 9455 7465 NAE
1200-1300 A WYFR 17750 11830 6015 5950
1200-1320 C Brazil 15445
1200-1400 B RFPI Costa Rica 21465° 15030 9400°
1200-1400 B WCSN 15665a 11745 NAE
1200-1600 C KHBN Palau 9965 9830 NAE
1200-0200 B WWCR #2 13845
1200-0300 B KVOH 17775 [13695a 0100-] NAE
1207-1649 B New Zealand 6100 occasional
1215-1330 C Cairo 17595
1230-1255 B Vlaanderen 17775 15545 Sun
1230-1300 C Bangladesh 13615
1230-1300 B Finland 15400 11900
1230-1300 B Sweden 17870 15240
1230-1300 C Vietnam 12020 9840
1230-1330 B VOA Asia-Pac 15425 15160 11805 11715 9760 6110
1300-1325 C Vlaanderen 17775 15545 Mon-Sat
1300-1325 C Israel 15650 15640 Sun-Thu
1300-1330 C Swiss R Int'l 15505 13635 11690 7480
1300-1350 C Pyongyang 15230 13760 11740 9640 9345
1300-1400 C KNLS Alaska 9615 NAE
1300-1400 C KHBI Saipan 13625 9425a 9355a NAE
1300-1400 C Moscow 21785 21630 15485 15470 15440 15355 15320 15290 15125 15105 12025 11985 11935 9540
1300-1400 A BBC 15220 11820 9740 9515 6195
1300-1400 A WEWN 15695 13710 12160a 9350 NAE
1300-1400 B WHRI #1 11790 [Sun 1100-] NAE
1300-1400 A WSHB 13760a 7465 NAE
1300-1400 A WYFR 17750 13695 11830 6015 5950
1300-1430 B Australia 13755 11800 7240 5995
1300-1500 B China 11855 summer
1300-1600 B Canada 17820 11955 Sun
1300-1600 C FEBC Philippines 11995
1300-1600 B KJES 11715
1300-1700 B WHRI #2 9465 [Sun -1600] NAE

1300-2200 B WWCR #3 15610
1330-1355 C Tashkent 17815 15295 9540 5945
1330-1400 C Austria 17730 15450
1330-1400 B Canada 21455 15325 11935 [& 17895 17820 15315 Mon-Sat]
1330-1400 B Finland 15400 11900
1330-1400 B Sweden 17870 15240
1330-1400 C VOA Asia-Pac 15425 15160 9760 6110
1330-1400 C Vietnam 12010 9840
1330-1500 C India 15120 11760
1330-1625 C Netherlands 15150 13700 9890 [& 5955 1530-]
1335-1350 B Greece 17535 15630
fade-1400 C NBC Port Moresby 4890
1400-1430 C VOA Asia-Pac 15425 15395 15225 15160 9760 9645 7125 6110
1400-1500 C Bulgaria 17705 15460
1400-1500 B France 17695 12030
1400-1500 C HRJA R Copan Int'l 15675 Mon-Sat NAE
1400-1500 B Japan 11915 11840 11705 9750 9535
1400-1500 B Moscow 21785 21630 15580 15485 15455 15355 15320 15290 15125 15105
1400-1500 C AWR Europe 13595
1400-1500 A BBC 17840 11820 9740 9515
1400-1500 C VOA ME 15255
1400-1500 A WEWN 18930 17510 15695a 9350 NAE
1400-1500 A WSHB 13710a 11900 9455 NAE
1400-1500 A WYFR 17750 11830 [& 6015 -1445]
1400-1600 B China 7405 winter
1400-1600 C Iraq 15205?
1400-1600 C KHBI Saipan 13625a 9430a 9355 NAE
1400-1600 B WCSN 15665 11745 NAE
1400-1700 B RFPI Costa Rica 21465° 15030 9400
1400-1800 B WHRI #1 15105 NAE
1430-1500 C VOA Asia-Pac 15425 15395 15225 15160 9760 9645 7125 6110
1430-1600 B HCJB 17890 17490° 11925 [& 21455° -1700]
1430-1630 B Australia 11800 11695 11660 9770 9710 7260 7240 6060 5995 [& 6080 1500-]
1440-1455 C Venezuela 9435v unintelligible
1445-1515 D Ulan Bator 7780 7260 Mon/Thu/Sat
1500-1530 C Nat'l Unity Radio Sudan 9165
1500-1530 C Swiss R Int'l 15505 13635 11690
1500-1550 C Deutsche Welle 21600
1500-1555 D Warsaw 9525 7285
1458-1555 C FEBC Seychelles 11870 [Sat -15501 Sun -1558]
1458-1600 C FEBC Seychelles 9810 [& 7205 -1543] Mon-Sat
1500-1600 C RTVA Algeria 17745 15205 15160 9535
1500-1600 B Japan 15355 11955 9750 9535
1500-1600 B Moscow 15320 15290 15105
1500-1600 A BBC 17840 15260 9515 [& 9740 -1515]
1500-1600 C VOA Asia-Pac 15395 15225 9760 9645 7215 7125 6110
1500-1600 A WEWN 21710a 18930 17510 15695a 9350 NAE
1500-1600 A WSHB 13710a 11900a 9455a NAE
1500-1630 C VOA ME 15255 15205 9700
1500-1700 C KTWR Guam 12025
1500-1700 A WCSN/Prophecy Countdown 15665 Mon-Fri [Sun -1730]
1500-1700 A WYFR 17750 11830 11705
1500-1730 D Jordan 9560
1500-1800 C Channel Africa 11770 4945
1500-2300 B WRNO 15420 NAE
1500-2330 B KCBI 15725
1500-0100 B KTBN 15590
1530-1600 C Portugal 21515 Mon-Fri
1530-1630 C Iran 11790 9575
1600-1630 C Pakistan 17660 15675 15555 13590 11570 9470
1600-1630 D Vietnam 12020 9840
1600-1700 C China 15130 15110 11575
1600-1700 B France 17850 17620 15530 12015 11700 11615 6175
1600-1700 C KSDA Guam 7425
1600-1700 B Moscow 15520 15320 15290 15180 15105 11630
1600-1700 C VOA Asia-Pac 15395 15225 9760 9645 7215 6110
1600-1700 A WEWN 21710a 18930 15695 13615 NAE
1600-1700 A WSHB 13710a 13695a NAE
1600-1715 A BBC 15260 9515 [& 17840 -1615]
1600-1800 C KWHR Hawaii 7425 NAE
1600-1800 C KHBI Saipan 13625 11580a 9430a 9355 NAE
1600-1800 C VOA Africa 15445 15410 13710 12040 [& 15225 -1700] [Sat-Sun 1630-]
1600-1800 B WCSN 216409a 17510a 15665 NAE
1600-1900 C KHBN Palau 9965 NAE
1600-2400 B WINB 15715 NAE
1630-1700 C Austria 11780
1630-1700 C VOA ME 17735 15255 15245 15205 9700 6060
1630-1830 C Cairo 15255
1630-1900 C Australia 11880 11695 11660 9860 9580 7260 7240 6080 6060
1650-1849 C New Zealand 6100 Mon-Fri
1700-1730 C Swiss R Int'l 15635 13635 9885
1700-1750 C Pakistan 11570 7485
1700-1755 D Warsaw 9525 7285 7270
1700-1800 C HCJB 17790 17490° 15270 [& 21455° -1900]
1700-1800 C KSDA Guam 13720 Sat-Sun
1700-1800 C Japan 11930 9580 9535 6150
1700-1800 C AWR Europe 15625 13595
1700-1800 C VOA Asia-Pac 15395 15225 9645 7215 7125 6110
1700-1800 C VOA ME 15255 15205 9760 6040
1700-1800 A WEWN 21710a 18930 15695 13615 11735a NAE
1700-1800 A WSHB 17555a 13710 13695a NAE
1700-1900 B Moscow 15520 15500 15290 15180 15105 9880 [& 11630 1800-]
1700-1900 A WYFR 21500
1700-2000 B WMLK 9465 Sun-Fri NAE
1700-2100 B RFPI Costa Rica 21465° 15030 9400°
1700-2300 B WHRI #2 13760 [Sun 1600-] NAE
1730-1800 C Vatican 15090 11625 9695
1730-2025 C Netherlands 17655 [& 21590 7120 6020 -1925; 17605 1930-]
1745-1945 C India 15080 11935 11860 11620 9950 7412
1800-1830 D Vietnam 12020 9840
1800-1900 C HRJA R Copan Int'l 15675 Sun NAE
1800-1900 B KJES 15385
1800-1900 B VOA Africa 15580 15410 13710 13680 12040 7415
1800-1900 A WSHB 17555a 15665a 13695a NAE

1800-2000 C KWHR Hawaii 13625 NAE
1800-2000 C KHBI Saipan 13770 9355
1800-2000 A WCSN 21640 17510 NAE
1800-2000 A WEWN 18930 17612½a 15695 13615 11735a NAE
1800-2100 C Kuwait 13620
1800-2100 C VOA ME 15205 9770 9760 6040
1800-2245 C Iraq 11810 [& 13680 -2145] NAE
1800-2300 B WHRI #1 9485 NAE
1840-1855 C Venezuela 9435v unintelligible
1850-2136 C New Zealand 11735
1900-1930 C Israel 17575 15640 11675 11603 9435
1900-1930 C Japan 9610 9580 9535 6150
1900-1930 C Portugal 17680 11975 9815 9780 Mon-Fri
1900-1930 D Vietnam 12020 9840
1900-2000 C Bulgaria 11720 9700
1900-2000 C HCJB 17790 17490° 15270 [& 21455° -2130]
1900-2000 C HRJA R Copan Int'l 15675 Tue/Fri/Sun NAE
1900-2000 B Moscow 17760 15520 15500 15480 15290 15105 11630 9880 9510
1900-2000 B VOA Africa 15580 15445 15410 13710 12040 7415
1900-2000 C VOA Asia-Pac 15180 11870 9525
1900-2000 A WSHB 17555a 15665 13695a
1900-2000 A WYFR 21615 15355
1900-2100 C Australia 11880 11720 11695 9580 7260 7240 6080 6060 [& 11660 9860 -2000]
1930-2025 D Warsaw 9525 7285 6135
1930-2030 C Tehran 15260 9022
1940-2010 D Ulan Bator 11850 11790 Mon/Thu/Sat
2000-2010 C Greece 9395
2000-2030 C Swiss R Int'l 15505 13635 9885 6135
2000-2030 C Vatican 15090 11625 9645
2000-2050 C Turkey 9900
2000-2100 D Indonesia 11752 9675
2000-2100 C KHBN Palau 15140a 9830 NAE
2000-2100 B Moscow 15290 11630 9880 9510
2000-2100 C AWR Europe 6055
2000-2100 B BBC 15260
2000-2100 B KJES 15385
2000-2100 B VOA Africa 15580 15445 15410 13710 7415 [& 15160 11820 -2030]
2000-2100 A WEWN 18930 17510a 15695 13740 13615 12160a NAE
2000-2200 C KWHR Hawaii 15405 NAE
2000-2200 C HRJA R Copan Int'l 15675 Mon-Sat NAE
2000-2200 A WCSN 13770 7510a NAE
2000-2200 A WSHB 17555a 15665
2000-2200 A WYFR 21615 21515 17612½ 15666 15355
2005-2105 C Damascus 15095 12085
2030-2100 B Canada 17875 17850 17820 15325 13670 13650 7235 5995
2030-2100 D Vietnam 12020 9840
2030-2200 C Cairo 15375
2045-2230 C India 15265 11715 11620 9950 9910 7412
2100-2130 C Australia 17860 11880 11855 11720 11695 9645 6080 6060
2100-2130 B VOA Africa 15580 15445 15410 13710 9535 7415
2100-2130 C Yemeni Republic R Yemen 9780v [time varies]
2100-2200 C Bulgaria 11720 11645 9700
2100-2200 B Havana 17760
2100-2200 C Japan 11925 9580 9535 7140 6150 6035
2100-2200 C KHBI Saipan 13840 13625 9430a NAE
2100-2200 C Romania 9690 7195 7105 6105 5990
2100-2200 B Moscow 15290 12065 11805 11770 11760 11730 11630 9880 9510 7380
2100-2200 C Ukraine 12030 11950 11780 11705 11610 9640
2100-2200 B BBC 15260 5975
2100-2200 C VOA Asia-Pac 17735 15185 11870
2100-2200 C VOA ME 15205 9760 9535 6160 6040
2100-2200 A WEWN 18930 17510a 15695 13740 13615 12160a 9985 9370a NAE
2100-2400 C KHBN Palau 15140a 9965 9830 NAE
2100-0400 B RFPI Costa Rica 21465° 15030 9400° 7375
2103-2113 C Croatian R Zagreb 13830 9830
2110-2210 C Damascus 15095 12085
2115-2130 B BBC Caribbean 17715 15390 6110 Mon-Fri
2115-2245 C Cairo 9900
2130-2200 C Australia 17860 17795 15365 11880 11855 11720 11695 9645
2130-2200 C HCJB 17490° 15270 11835 [& 21455° -2300]
2130-2200 B Israel 17575 11675 11603 9435 7465
2130-2200 B VOA Africa 15580 15410 13710 7415 Sun-Fri
2137-0458 C New Zealand 15155
2140-2155 C Venezuela 9435v unintelligible
2144-2157 C Yerevan 11960 11790
2200-2230 B Canada 15305 13670 11875 11845 9755 5960 Mon-Fri
2200-2230 B KGEI 15280 Sun
2200-2245 B WYFR 21525 17612½
2200-2250 C Turkey 11710 9445 7185
2200-2300 B Canada 13670 9755 5960 Sat-Sun [& 15305 11875 11845 -2230]
2200-2300 B Havana 6180
2200-2300 C HRJA R Copan Int'l 15675 Mon-Fri NAE
2200-2300 B Moscow 15290 12065 11805 94700 9750
2200-2300 C AWR Europe 11610
2200-2300 B Voice of Free China 21720 17750
2200-2300 A BBC 15260 9915 9590 5975
2200-2300 A WEWN 17760a 15695 13740 13615 11820 9985 9370 5825a NAE
2200-2300 B WWCR #3 12160 NAE
2200-2400 C Australia 17860 17795 15365 13775 11880 11855 11720 11695 [& 9645 -2300]
2200-2400 C KWHR Hawaii 17645 NAE
2200-2400 C KHBI Saipan 15405 13625 9430 NAE
2200-2400 C Abu Dhabi 13605 11885 9770
2200-2400 C VOA Asia-Pac 17735 15305 15290 15185 11760 9770 7215 [& 7105 -2300]
2200-2400 A WCSN 9855 9465a 7510 NAE
2200-2400 A WSHB 17555 13770 9355 5850a NAE
2230-2315 C KTWR Guam 15485 Fri-Sat unconfirmed
2230-2400 B Canada 13670 9755 5960 Mon-Fri
2243-2257 C Yerevan 11945 11790
2245-2300 A Organization of American States 15155 11730 9670 Mon-Fri
2245-2305 C Vatican 11830 9600 6250
2245-2345 B Bulgaria 11720 9700
2245-2445 C India 15145 15110 11745 11715 9910

2200-0300 C Iraq 17940 15205 15180 NAE
2300-2315 C Tirana 11825 9760
2300-2330 B Vilnius 11770 NAE
2300-2330 C Norway 11860 Sun
2300-2350 C Pyongyang 13650 11700
2300-2400 B Canada 15235 13670 11940 9755 5960 Sat-Sun
2300-2400 C KSDA Guam 15610
2300-2400 C HRJA R Copan Int'l 15675 Sun NAE
2300-2400 C Japan 9750 9625 9610 7140 6185 6125 5975
2300-2400 B Moscow 12065 11805
2300-2400 A BBC 15260 9915 9590 6175 5975
2300-2400 A WEWN 17760a 17510a 15695a 13710a 13615 11820 9985 5825a NAE
2300-0300 B WRNO 7355 NAE
2300-0800 B WHRI #1 9495 NAE
2300-1300 B WHRI #2 7315
2300-1300 B WWCR #3 5810
2330-2355 B Vlaanderen 13655 11740
2330-2400 B Austria 13730 9870
2330-2400 C Sri Lanka 15425 Mon
2330-2400 D Vietnam 12020 9840
2330-0125 A Netherlands 6165 6020 [& 9840 0030-]
24 hours C CBC 6070 [CFRX Toronto]
24 hours C CBC 6005 [CFCX Montreal]
24 hours C R Education Mexico 6185 NAE [EG sporadic]
24 hours B WJCR 13595 7490

Times are UT; frequencies in kHz. All daily unless otherwise indicated. Schedules subject to change without notice. a: alternate or authorized freq. v: freq varies. NAE: not all English. °=USB; °°=LSB (the VOA's are feeders & may have another language on the other sideband).

Signal quality (a very rough guide): A: reliable; B: regular; C: occasional; D: rare. The letter given will not necessary apply to all frequencies listed at any given time. Reception of stations located in North America will depend on the location of the listener in relation to the transmitter location, power, beam direction & the distance of the skip zone at any given time.

Compiled mostly from Glenn Hauser sources (WORLD OF RADIO, REVIEW OF INTERNATIONAL BROADCASTING, DX LISTENING DIGEST, SW BROADCASTING from MONITORING TIMES) plus monitoring DX programs such as MEDIA NETWORK, DX PARTY LINE, etc.

The compiler does not claim that this is a list of ALL English broadcasts that can be heard in North America, nor does he claim that all broadcasts & frequencies will be audible at any given time.

SELECTED ENGLISH LANGUAGE DX/SWL/MEDIA PROGRAMS

SUNDAY
0011-0021 Spanish Nat'l R DX SPOT 9540
0030-0130 WWCR #1 HOME SATELLITE INT'L RADIO NETWORK 7435
0039-0115 HCJB DX PARTY LINE 21455 17490 11925 9745
0110-0130 VOA COMMUNICATIONS WORLD 15205 15120 11695 11580 9775 9455 7405 5995
0111-0121 Spanish Nat'l R DX SPOT 9540
0118-0128 Swiss R Int'l SW MERRY-GO-ROUND 9885 6135 5905 last edition June 5
0123-0133 Deutsche Welle DX WORLD MEETING after last Sat 11865 9700 9650 9565 6145 6120 6085 6040
0130-0145 Havana DXERS UNLIMITED 13700 6010
0130-0200 WHRI #2 WORLD OF RADIO 7315
0200-0230 RFPI WORLD OF RADIO 21465 15030 9400 7375
0200-0300 WWCR #1 & 3 SPECTRUM 7435 5810
0215-0227 KSDA DX ASIAWAVES 13720
0245-0250 Romania DX MAILBAG 11940 11830 9750 9510 6155
0250-0255 Budapest DX WORLD 11910 9835 5970
0257-0310 Vatican ON THE AIR 9605 7305
0300-0400 KWHR/WHRI #2 DX RADIO SHOW 17510 7315
0309-0345 HCJB DX PARTY LINE 21455 17490 11925 9745
0315- Turkey DX PROGRAM biweekly 9445
0315-0345 WWCR #1 WORLD OF RADIO 7435
0323-0333 Deutsche Welle DX WORLD MEETING after last Sat 11715 9700 9640 9545 6185 6120
0330-0345 Havana DXERS UNLIMITED 9820 6010
0509-0545 HCJB DX PARTY LINE 21455 17490 11925
0511-0521 Spanish Nat'l R DX SPOT 9540
0523-0533 Deutsche Welle DX WORLD MEETING after last Sat 11705 9670 9515 5960
0525-0550 Japan MEDIA ROUNDUP 17810 15410 11885 11740 9725 9610 7230 5975
0530-0545 Havana DXERS UNLIMITED 9820
0600-0630 WWCR #3 WORLD OF RADIO 5810
0600-0630 KWHR WORLD OF RADIO 17780
0725-0750 Japan MEDIA ROUNDUP 21610 17810 15410 15380 15270 11740 7230 5975
0940- FEBC Philippines DX REPORT 11690
1000-1030 RFPI WORLD OF RADIO 15030 9400
1035-1052 Korea SW FEEDBACK 11715
1240-1257 Korea SW FEEDBACK 7180
1320-1325 Israel DX CORNER 15650 15640
1425-1450 Japan MEDIA ROUNDUP 11915 11840 11705 9750 9535
1445- FEBC Philippines DX REPORT 11995
1615-1627 KSDA DX ASIAWAVES 7425
1725-1750 Japan MEDIA ROUNDUP 11930 9580 9535 6150
1815-1827 KSDA DX ASIAWAVES 13720
1925-1929 Israel DX CORNER 17575 15640 11675 11603 9435
2125-2150 Japan MEDIA ROUNDUP 11925 9580 9535 7140 6150 6035
2145-2157 Bulgaria R BULGARIA CALLING 11720 9700
2300-2330 RFPI WORLD OF RADIO 21465 15030 9400 7375
2300-2330 WWCR #1 WORLD OF RADIO 15685

MONDAY
0100-0130 WHRI #1 WORLD OF RADIO 9495
0125-0150 Japan MEDIA ROUNDUP 17845 17810 15195 11910 11860 11840 9610 5960
0140-0157 Korea SW FEEDBACK 15575
0250-0255 Budapest DX TIPS? 11910 9835 5970
0400-0500 KWHR/WHRI #1 DX RADIO SHOW 17780 9495
0415-0427 Bulgaria R BULGARIA CALLING 11720 9700

0430-0458 New Zealand MAILBOX biweekly 15115
0635-0648 Korea SW FEEDBACK 15155 11945
0637-0645 Vlaanderen RADIO WORLD 9925 6015
0700-0730 RFPI WORLD OF RADIO 15030 9400 7375
1040-1045 India DXERS CORNER 2nd & 4th 21735 17895 17895 15050
1245-1257 Bulgaria R BULGARIA CALLING 17625
1307-1317 Vlaanderen RADIO WORLD 17775 15545
1435-1440 India DXERS CORNER 2nd & 4th 15120 11760
1445-1457 Bulgaria R BULGARIA CALLING 17705 15460
1840-1845 India DXERS CORNER 2nd & 4th 15080 11935 11860 11620 9950 7412
2130-2135 India DXERS CORNER 2nd & 4th 15265 11715 11620 9950 9910 7412
2155-2159 Israel DX CORNER 17575 15640 11675 11603 9435
2340-2345 India DXERS CORNER 2nd & 4th 15145 15110 11745 11715 9910

TUESDAY
0120-0125 Budapest DX TIPS? 11910 9835 6025
0247-0252 Romania FOR RADIO AMATEURS 11940 11830 9570 9510 6155
1230-1300 WWCR #1 WORLD OF RADIO 15685
1250-1300 Sweden MEDIASCAN 1st & 3rd 17870 15240
1350-1400 Sweden MEDIASCAN 1st & 3rd 17870 15240
1520- Warsaw DX CLUB 9525 7285
1900-1930 RFPI WORLD OF RADIO 21465 15030 9400
1950- Warsaw DX CLUB 9525 7285 6135
2138-2153 Havana DXERS UNLIMITED 17760
2238-2253 Havana DXERS UNLIMITED 6180

WEDNESDAY
0038-0053 Havana DXERS UNLIMITED 13700 6010
0050-0100 Sweden MEDIASCAN after 1st & 3rd Tue 9850 6095
0120-0125 Budapest DX NEWS 11910 9835 6025
0238-0253 Havana DXERS UNLIMITED 9820 6010
0250-0300 Sweden MEDIASCAN after 1st & 3rd Tue 9850 6040
0300-0330 RFPI WORLD OF RADIO 21465 15030 9400 7375
0350-0400 Sweden MEDIASCAN after 1st & 3rd Tue 9850 6040
0438-0453 Havana DXERS UNLIMITED 9820 6180 6010
0700-0710 HCJB THE LATEST CATCH 21455 17490 11835 9600
0705-0715 HCJB THE LATEST CATCH 11925 9745
0800-0830 HCJB HAM RADIO TODAY 21455 17490 11925 11835 9745 9600
1030-1100 HCJB HAM RADIO TODAY 21455 17490 11925 9745
1100-1130 RFPI WORLD OF RADIO 15030 9400
1220- Warsaw DX CLUB 11815 9525 7270 7145 6135
1330- FEBC Philippines DX REPORT 11995
1720- Warsaw DX CLUB 9525 7285 7270
1730-1800 HCJB HAM RADIO TODAY 21455 17790 17490 15270
1930-2000 HCJB HAM RADIO TODAY 21455 17790 17490 15270
2100-2130 HCJB HAM RADIO TODAY 21455
2130-2140 HCJB THE LATEST CATCH 21455 17490 15270 11835

THURSDAY
0100-0130 HCJB HAM RADIO TODAY 21455 17490 11925 9745
0120-0125 Budapest DX WORLD 11910 9835 6025
0130-0140 BBC WAVEGUIDE 15260 11750 9915 9590 7325 6175 5975
0152-0224 Netherlands MEDIA NETWORK 12015 9860
0200-0210 HCJB THE LATEST CATCH 21455 17490 11925 9745
0330-0400 HCJB HAM RADIO TODAY 21455 17490 11925 9745
0400-0410 HCJB THE LATEST CATCH 21455 17490 11925 9745
0530-0600 HCJB HAM RADIO TODAY 21455 17490 11925
0752-0824 Netherlands MEDIA NETWORK 9720 9630
0830-0858 New Zealand MAILBOX biweekly 6100
0952-1024 Netherlands MEDIA NETWORK 15470 12065 9810 9720
1152-1224 Netherlands MEDIA NETWORK 9650 5955
1352-1424 Netherlands MEDIA NETWORK 15150 13700 9890
1552-1624 Netherlands MEDIA NETWORK 15150 13700 9890 5955
1752-1824 Netherlands MEDIA NETWORK 21590 17655 7120 6020
1952-2024 Netherlands MEDIA NETWORK 17655 17605

FRIDAY
0052-0124 Netherlands MEDIA NETWORK 12025 9860 9840 6165 6020
0252-0324 Netherlands MEDIA NETWORK 12025 9860
0352-0424 Netherlands MEDIA NETWORK 9590 6165
1545-1600 Portugal DX PROGRAM triweekly 21515
1915-1930 Portugal DX PROGRAM triweekly 17680 11975 9815 9780
1930-1958 New Zealand MAILBOX biweekly 11735
1945-1957 Bulgaria R BULGARIA CALLING 11720 9700
2000-2030 RFPI WORLD OF RADIO 21465 15030 9400
2115-2145 WWCR #1 WORLD OF RADIO 15685
2300-2330 WHRI #2 WORLD OF RADIO 7315
2330-2342 Bulgaria R BULGARIA CALLING 11720 9700

SATURDAY
0145-0200 Portugal DX PROGRAM triweekly 11840 9705 9600? 9570 9555?
0250-0255 Budapest DX NEWS 11910 9835 5970
0400-0430 RFPI WORLD OF RADIO 15030 9400 7375
0418-0428 Swiss R Int'l SW MERRY-GO-ROUND 9885 9860 6135 last edition June 4
0600-0630 KWHR/WHRI 1/#2 WORLD OF RADIO 17780 9495 7315
0600-0630 WWCR #1 WORLD OF RADIO 7435
0618-0628 Swiss R Int'l SW MERRY-GO-ROUND 15430 13635 9885 6165 3985 last edition June 4
0637-0645 Vlaanderen RADIO WORLD 9925 6015
0715-0725 BBC WAVEGUIDE 9640 5975
0739-0815 HCJB DX PARTY LINE 21455 17490 11925 11835 9745 9600
0900-0930 KWHR WORLD OF RADIO 9930
0918-0928 Swiss R Int'l SW MERRY-GO-ROUND 17515 13685 9885 last edition June 4
0940- FEBC Philippines DX DIAL 11690
1009-1045 HCJB DX PARTY LINE 21455 17490 11925 9745

1030-1040 BBC WAVEGUIDE 15190
1118-1128 Swiss R Int'l SW MERRY-GO-ROUND 17515 15505 13635 last edition June 4
1200-1230 RFPI WORLD OF RADIO 21465 15030 9400
1210-1230 VOA COMMUNICATIONS WORLD 15425 15160 11715 9760 6110
1307-1317 Vlaanderen RADIO WORLD 17775 15545
1318-1328 Swiss R Int'l SW MERRY-GO-ROUND 15505 13635 11690 7480 last edition June 4
1440- FEBC Philippines DX DIAL 11995
1518-1528 Swiss R Int'l SW MERRY-GO-ROUND 15505 13635 11690 last edition June 4
1610-1630 VOA COMMUNICATIONS WORLD 15255 15205 9700
1615-1627 KSDA DX ASIAWAVES 7425
1718-1828 Swiss R Int'l SW MERRY-GO-ROUND 15635 13635 9885 last edition June 4
1800-1830 RFPI WORLD OF RADIO 21465 15030 9400
1909-1945 HCJB DX PARTY LINE 21455 17790 17490 15270
2015- Turkey DX PROGRAM biweekly 9900
2018-2028 Swiss R Int'l SW MERRY-GO-ROUND 15505 13635 9885 6135 last edition June 4
2039-2115 HCJB DX PARTY LINE 21455
2110-2130 VOA COMMUNICATIONS WORLD 15580 15445 15410 13710 9535 7415
2130-2145 Havana DXERS UNLIMITED 17760
2215- Turkey DX PROGRAM biweekly 11710 9445 7185
2230-2245 Havana DXERS UNLIMITED 6180
2315-2327 KSDA DX ASIAWAVES 15610
2337-2347 Vlaanderen RADIO WORLD 13655 11740

Times & lengths are nominal & may vary. Airings of WORLD OF RADIO on WHRI are subject to pre-emption. WORLD OF RADIO editions on RFPI runs 1-2 weeks behind those on WWCR/WHRI/KWHR. Some HCJB, RFPI & Havana freqs are USB. All programs have one edition per week/cycle except DXERS UNLIMITED (2).

The compiler does not claim that this list includes all "DX" programs, nor does he claim that all times & frequencies for any particular program are listed. Not all programs have SW news & SW-oriented features; some concentrate solely on the station that it is heard on or are mailbag/music request programs with station/DX news segments; others report on telecommunications & satellite matters only.

SOME PROGRAM HOSTS or *DX REPORTERS
WORLD OF RADIO: Glenn Hauser
MEDIA NETWORK: Jonathan Marks
COMMUNICATIONS WORLD: Gene Reich
DX CORNER: Ben Dalfen
DXERS UNLIMITED: Arnie Coro [Tue/UT Wed edition has been known to start as late as :45 & run only 10 mins.]
DX NEWS, DX TIPS, DX WORLD: Mike Mitchell
DX PARTY LINE: Richard & Lisa McVicar
DX SPOT: Terry Burgoyne with Allison Hughes or Mary Fitzhugh
HAM RADIO TODAY: John Beck
THE LATEST CATCH: Rich McVicar
MAILBOX: *Arthur Cushen
MEDIA ROUNDUP: Mark Robinson; *Bruce MacGibbon
MEDIASCAN: George Wood
RADIO WORLD: Frans Vossen
SPECTRUM: Dave Marthouse, Mark Emanuele
SW FEEDBACK: *William Matthews
SW MERRY-GO-ROUND: Bob Zanotti & Bob Thomann

TURKEY (via Monitoring Times) VOT Jan-Jun programs: Daily NEWS & PRESS REVIEW; then: Sat OUTLOOK, CULTURAL TRANSFORMATIONS or DX CORNER, BLUE VOYAGE. Sun NOAH'S ARK, MAGNIFICENT ISTANBUL. Mon LAST WEEK, HISTORY OF THE TURKISH PRESS, TURKISH PROVERBS. Tue A TURCOLOGIST AND ONE OF HIS/HER WORKS, FROM TURKEY / A BRIEF LOOK AT THE ECONOMY. Wed REVIEW OF THE FOREIGN MEDIA, LETTER BOX, COMMON FREQUENCY, YOUR OWN VOICE. Thu FROM THE WORLD OF TURKISH MUSIC, INTERNATIONAL ORGANIZATIONS & TURKEY. Fri TURKISH ALBUM, THE STORY OF A REBIRTH: ANKARA.

(tnx to F. Viloria!)

COVER Euro-pirate RPI plans to broadcast thru Oct the last Sunday of each month at 20 and 21 UT on 13950 LSB (another QSL shows 13957.7), 150 or 600 watts: P O Box 220342, D-42373 Wuppertal, Germany.

NOTE FROM GH Apologies to those who have been waiting too long for this issue as sample or next in subscription. Priority has had to go to weekly WORLD OF RADIO broadcasts, weekly SHORTWAVES newspaper column, monthly MONITORING TIMES column. I may be "burning out" as far as huge hours at the typewriter compiling RIB myself. But thanks to our untiring contributing editors LOREN COX and JOHN NORFOLK we can still publish. THANKS to 99% of recipients who have understood and NOT pestered me for refunds or where's-my-copy? It seems the great majority would still prefer to have an occasional RIB like this than none at all. I hesitate to pull the final plug. If I did, people would get pro-rated refunds, or perhaps outside N. America, conversion to other publications. Those who are due to renew or subscribe may feel free to take our 5-issue half-price offer. A similar situation applies to DX LISTENING DIGEST I do not specify a certain number of issues per year, much less monthly publication as some have assumed. I always wish I could get both out more frequently, and may find a way to do so, but do not want to make promises I cannot keep. Thank you. (disregard DX DAILY 900 publicity, terminated 4/30)

YOU NEED DX LISTENING DIGEST TOO Here's what's in Issue 41, published in April, plenty extras of which are still available as of the closing date of this RIB, 24 May 1994: Pakistan coverage map. Norway full sked. Jacobs USA clients sked by station & freq, tabular. WE THE PEOPLE stn list. Prague programs RFPI block sked. Rwanda cland report. Australia full sked.BBC programs by topic, title, freq graphs. Turkey full freq sked by target. WYFR by freq. Guatemala article. Colombian pirate QSL. LA-list by freq (almost 3 pages small print). St. Pete/Kaliningrad freq sked & QSL info. Norfolk's Amateur Radio Voice Nets & Bulletins by freq, 4 pp. RCI full engineering sked + relays. So. Africa & WRMI/HRJA. R. Netherlands complete pgm previews to Sept. Inoue's extensive S. American report. Greece sked. VOA new director article, photo. Israel sked. Sunspot cycle 22 vs 21. Switz sked. Trop list sample. RBDS. TWR-Monaco schedule. Order NOW from gh, $2.50 sample ($3 outside N.Am.), full details on back cover.

SHOWS WE LIKE

(C) GLENN HAUSER 1994

SATURDAY

0003-0024 RN RADIO-ENLACE 15315 6165
0006+0100 KMUW KS LEGACIES-TALES FROM AMERICA 89.1
0015-0030 BBC MARRIAGE & THRONE/TIME MACHINE 9590
0030-0045 BBC FROM THE WEEKLIES 9590 5975 15260
0100-0128 HCJB MUSICA DEL ECUADOR 9745 11925
0100+0200 KCSC OK SCHICKELE MIX 90.1
0100+0230 KOSU OK ST LOUIS SYMPHONY 91.7
0147-0200 Portugal DX PGM 3-weekly? 9570 9705
0200-0230 RFPI COMMON GROUND 7375 9400 15030 21465
0200-0300 KCSC OK MUSIC HEARTS OF SPACE 90.1
0200+0415 KSL UTAH SYMPHONY occasional 1160
0230-0300 RFPI FAR RIGHT RADIO REVIEW 7375 9400
0300-0400 RFPI NEW DIMENSIONS RADIO 7375 9400
0303-0324 RN RADIO-ENLACE 15315 6165
0330-0400 HCJB MUSICA DEL ECUADOR 9745 11925
0330-0400 BBC VINTAGE CHART SHOW 5975 7325 9915
0335-0400 BBC QUIZ & THIS WEEK AFRICA 6005 11730
0400-0430 RFPI WORLD OF RADIO 7375 9400 15030
0407+0500 Mutual JIM BOHANNON+plans 690 960 1150
0430-0500 RFPI MAILBAG 7375 9400 15030
0503-0524 RN RADIO-ENLACE 6165 9590
0530-0600 HCJB MUSICA DEL ECUADOR 11925
0530+0600 WWCR THE BIG BACKYARD Aussie mx 5810
0600+0630 WWCR WORLD OF RADIO 7435
0600-0630 WHR WORLD OF RADIO 7315 9495 17780
0600-0700 RFPI UNCONVENTIONAL WISDOM 7375 9400
0630-0700 RFPI SECOND OPINION 7375 9400 15030
0630-0700 XEPPM DX-6185 6185
0630-0700 BBC MERIDIAN 5975 9640
0715-0730 BBC WAVEGUIDE 5975 9640 KWGS-89.5
0739-0815 HCJB DX PARTYLINE 9600 11835
0752-0825 RN SOUNDS INTERESTING 9720
0900-0930 KWHR WORLD OF RADIO 9930
0952-1025 RN SOUNDS INTERESTING 9720
1005+1100 ABC PERSPECTIVE KTBB 600 Tyler TX
1009-1045 HCJB DX PARTYLINE 9745 11925
1010-1030 VOA COMMUNICATIONS WORLD 5985
1030-1100 RFPI FAR RIGHT RADIO REVIEW 9400 15030
1100-1200 RFPI NEW DIMENSIONS 9400 15030
1100+1200 KCSC MONITORADIO 90.1 OK
1130-1200 BBC MERIDIAN 5965 6195 9515
1200-1230 RFPI WORLD OF RADIO 9400 15030 21465
1200+1300 KCSC OK MUSIC FROM HEARTS OF SPACE 90.1
1200+1400 KMUW KS NPR WEEKEND EDITION SAT 89.1
1210-1230 VOA COMMUNICATIONS WORLD 9760 6110
1230-1300 RFPI MAILBAG 21465 15030 9400
1245+1300 KOSU OK INTERMISSION 91.7 irregular
1300+1500 KCSU OK NPR WEEKEND EDITION SAT 91.7
1308±1319 RVI RADIO WORLD 15545
1352-1424 RN SOUNDS INTERESTING 9890
1400-1430 RFPI UNCONVENTIONAL WISDOM 21465 15030
1400+1430 KAKE KS BILL NYE SCIENCE GUY 10
1406+1412 PRES CLINTON 1070-KS 1170-OK, ABC etc
1430+1500 RFPI SECOND OPINION 21465 15030
1450+ WCSN/WVHA SABBATH MAILBAG, FPL 15665
1505+1600 WIBW KS LET'S TALK TRAVEL etc 580
1600+1615 WWCR IN THE HOLY LAND 15685
1605+1700 KRPT OK INDIANS FOR INDIANS 850
1610-1630 VOA COMMUNICATIONS WORLD 19379
1645+1700 WWCR PRESIDENT/REPUBLICANS 15685
1700+1730 KOSU OK SOUNDPRINT 91.7
1800-1830 RFPI WORLD OF RADIO 21465 15030
1800+1830 KSNW KS SISKEL & EBERT 3 sometimes
1830-1900 BBC FROM OWN CORRESP & WRITE ON 17880
1830-1900 BBC SPICE TAXI 15400
1830-1900 RFPI SECRET SIDE OF FREE TRADE 21465
1852-1924 RN SOUNDS INTERESTING 21590 17655
1900-1930 RFPI COUNTERSPIN 21465 15030
1900-1930 BBC SCIENCE IN ACTION 15400
1901-1945 BBC SPECIAL FEATURES 17880 15270
1909-1945 HCJB DX PARTYLINE 21455 17790 17490 /
1930-2000 RFPI MAILBAG 21465 15030
1930-2000 BBC AFRICAN PERSPECTIVE 15400
1945-2000 BBC FROM THE WEEKLIES 17880 15070
2000-2100 KOSU OK MONITORADIO 91.7
2030-2100 BBC MERIDIAN 15400 15260
2030-2130 RCI INNOVATION & EARTH WATCH 17850 15325
2039-2115 HCJB DX PARTYLINE 21455
2100-2130 RFPI FOCUS ON HAITI 21465 15030 9400
2100+2130 KPTS KS SNEAK PREVIEWS 8
2110--2130 VOA COMMUNICATIONS WORLD 15580
2130-2150 RHC DXERS UNLIMITED 17760
2200-2230 RFPI VIETNAM VETERANS RADIO NET 21465
2200+2230 KMUW KS LIVING ON EARTH 89.1
2200+2300 WWCR SOUND CURRRENTS OF THE SPIRIT 12160
2204+2300 RCI INNOVATION & EARTHWATCH 13670 9755
2215+2230 Turkey DX alternate 9445
2230+2250 Turkey BLUE VOYAGE 9445
2230-2300 RFPI FOOD NOT BOMBS/FOCUS AMERICAS 15030
2230-2250 RHC DXERS UNLIMITED 9550
2230+2300 KMUW KS CROSSROADS 89.1
2245+2300 WWCR PRESIDENT & REPUBLICANS 15685
2300+0100 KMUW KS ST LOUIS SYMPHONY 89.1
2300+2330 Radio Vilnius Lithuania 11770
2330-2400 BBC MUSICIAN'S MUSICIAN/BEST RECORD 9590
2338+2349 RVI RADIO WORLD 13655 11740

SUNDAY

0013-0123 Spain DX SPOT 9540
0030+0130 WWCR HOME SATELLITE INTL R SHOW 7435
0039-0115 HCJB DX PARTYLINE 9745 11925
0040-0100 Spain AMIGOS DE LA ONDA CORTA 6055
0052-0124 RN SOUNDS INTERESTING 6020 6165 9840
0100+0300 KMUW KS LIBRARY OF CONGRESS CONCERT 89.1
0101-0200 BBC PLAY OF THE WEEK 9590 5975 occl 0030
0104-0200 RCI INNOVATION & EARTHWATCH 9755 6120
0110-0130 VOA COMMUNICATIONS WORLD 5995 7405
0113-0123 Spain DX SPOT 9540
0122-0132 DW DX CLUB last Sat 6040
0130-0150 RHC DXERS UNLIMITED 6010 13700
0130-0200 WHRI WORLD OF RADIO 7315
0130+ KHCC KS NIGHTCROSSINGS 90.1 89.5 90.9
0135-0155 Austria MAILBAG 9870 9655
0200-0230 RFPI WORLD OF RADIO 7375 9400 15030
0200+0300 WWCR SPECTRUM 5810 (& 0230+ on 7435)
0207+0233 RCI ROYAL CANADIAN AIR FARCE 6120 9755
0200+0345 KCSC OK ORCHESTRE DE PARIS 90.1
0230-0300 BBC Docus Sarajevo/Music Fest 9590 5975
0230-0300 RFPI SECRET SIDE FREE TRADE 7375 9400
0233+0256 RCI DOUBLE EXPOSURE 6120 9755 11845
0300-0330 RFPI COUNTERSPIN 7375 9400 15030
0300-0400 WHR DX RADIO SHOW 7315 17510
0309-0345 HCJB DX PARTYLINE 9745 11925

0310+0315 WWCR VIEW FROM EUROPE 7435
0315+0345 WWCR WORLD OF RADIO 7435
0315+0330 Turkey DX CORNER alt 9445
0322-0332 DW DX CLUB last Sat 6185
0330+0350 Turkey BLUE VOYAGE 9445
0330-0350 RHC DXERS UNLIMITED 6010 9820
0330-0400 BBC FROM OWN CORRESPONDENT & WRITE ON 5975
0330-0400 RFPI MAILBAG 7375 9400 15030
0335-0400 BBC POSTMARK AFRICA 6005 11730
0352-0424 RN SOUNDS INTERESTING 6165 9590
0403+0432 WWCR OLD RECORD SHOP 7435
0409-0440 BBC AFRICAN PERSPECTIVE 6005
0430-0445 BBC SEEING STARS 5975 first Sunday
0445-0500 BBC SCIENCE OVERREACHING/POP THE QUESTION
0500-0530 RFPI FOCUS ON HAITI 7375 9400 15030
0500-0530 Norway THIS WEEK 11865 9590
0509-0545 HCJB DX PARTYLINE 11925
0513-0523 Spain DX SPOT 9540
0522-0532 DW DX CLUB last Sat 5960 9670
0525-0550 Japan MEDIA ROUNDUP 9725
0535-0555 Austria MAILBAG 6015
0600+0630 WWCR WORLD OF RADIO 5810
0600-0630 KWHR WORLD OF RADIO 17780
0615-0630 BBC LETTER FROM AMERICA 5975 9640
0630-0700 BBC AFRICAN PERSPECTIVE 9600 15400
0635-0655 Austria MAILBAG 6015
0630+0700 WWCR THE OLD RECORD SHOP 5810
0715-0730 BBC CROSSING BORDERS/MUSIC AS IT WAS 9640
0730-0800 BBC FROM OWN CORRESPONDENT & WRITE ON
0800-0830 WHR SOUNDS OF ALOHA 7315 7355 9930
0815-0900 BBC RAY ON RECORD KWGS 89.5
0915-0930 BBC SEEING STARS 89.5 first Sunday
0930-0945 BBC FOLK ROUTES 89.5
1000-1030 RFPI WORLD OF RADIO 9400 7375
1005+1100 ABC PERSPECTIVES KRMG-740 KSAL-1150 + ABC
1030+1100 KOMA THE NATIVE AMERICAN SPEAKS 1520
1030-1100 RFPI SECRET SIDE OF FREE TRADE 9400 7375
1037+1059 Korea SHORTWAVE FEEDBACK 11715
1100-1130 RFPI COUNTERSPIN 9400 7375
1100+1130 K-STATE PERSPECTIVE 95.1 103.7 Kansas
1100+1130 K-STATE PERSPECTIVE 107.3 different issue
1100+1130 JOY OF MUSIC KSBI-51 OKC
1100+1130 KCSC OK SING FOR JOY 90.1
1106+1159 KOA CO ABC PERSPECTIVE 850
1110-1150 Japan HELLO FROM TOKYO 6120
1130-1200 RFPI MAILBAG 9400 7375
1130-1200 RA FINE MUSIC AUSTRALIA 9580 9860
1130+1200 KJRH OK SISKEL & EBERT 2
1130+1200 KCSC OK MICROLOGUS 90.1
1130+1200 KWEN OK Tulsa pubaffs 95.5
1145+1200 WWCR PRESIDENT & REPUBLICANS 15685
1147-1149 Japan program previews 6120
1200+1230 KCSC OK AUDITORIUM ORGAN 90.1 +KCMA 92.1
1200+1400 KOSU OK NPR WEEKEND EDITION SUNDAY 91.7
1201-1300 BBC PLAY OF THE WEEK 9515 15220 (or 1130)
1230-1300 Sweden features rotate 15240 17870
1234-1300 RHC CUBA CAMPESINA 9505 11760 11860
1235-1300 Korea SHORTWAVE FEEDBACK 7180
1300-1330 RFPI FOCUS ON HAITI 21465 15030 9400
1300+1429 KWCH KS CBS SUNDAY MORNING 12
1306+1325 Israel CALLING LISTENERS & DX 15640 15650
1311-1559 CBC/RCI SUNDAY MORNING 11955 17820 9625
1330-1359 Sweden features rotate 15240 17870
1335-1350 RHC EN CONTACTO 11760
1335-1425 RN HAPPY STATION 9890
1401-1430 BBC BALTICS/EMBALMING...17840 9515
1400+ KCSC OK LIBRARY OF CONGRESS CONCERT 90.1
1400+1530 KOSU OK SAINT PAUL SUNDAY MORNING 91.7
1425-1450 Japan MEDIA ROUNDUP 9535 11705
1430-1500 RFPI VIETNAM VETERANS R NET 21465 15030
1430-1500 BBC ANYTHING GOES 17840 9515
1440-1457 CRI LISTENERS LETTERBOX 7405 or 11855
1500-1530 RFPI FOCUS on AMS/FOOD not BOMBS 21465
1500+1600 KAKE KS THIS WEEK WITH BRINKLEY 10
1510-1550 Japan HELLO FROM TOKYO 9535
1515-1600 BBC CONCERT HALL 17840 15260 9515
1530+1700 KOSU OK MINNESOTA ORCHESTRA 91.7
1535-1625 RN HAPPY STATION 9890
1547-1549 Japan program previews 9535
1556+1558 CBC CENTERPOINT preview 17820 11955
1600+1630 KOTV OK FACE THE NATION 6
1615-1645 BBC docus Sarajevo/Music Fest 15260 9515
1645-1700 BBC LETTER FROM AMERICA 15260 9515
1705-1740 BBC FOCUS ON AFRICA 15400 17880
1706- VOA TALK TO AMERICA occasional
1730+1800 WIBW KS FACE THE NATION 580 irregular
1730+1900 KOSU OK PIPEDREAMS 91.7
1730-1800 VOA MUSIC TIME IN AFRICA 15580 17800
1735-1825 RN HAPPY STATION 21590 17655
1800-1830 WHRI SOUNDS OF ALOHA 9485
1830-1900 BBC AFRICAN PERSPECTIVE 15400
1835-1925 RN EAST OF EDAM 21590 17655
1900-2000 RFPI NEW DIMENSIONS 21465 15030
1900-1930 HCJB SALUDOS AMIGOS 21455 17790 15270
1900-2100 KCSC OK ST PAUL CHAMBER ORCHESTRA 90.1
1900-1930 KOSU OK MICROLOGOS 91.7
1910-1930 Israel CALLING LISTENERS/DX 17575 11603
1930-2000 VOA MUSIC TIME IN AFRICA 15580
1935-2000 BBC POSTMARK AFRICA 15400
1935-2025 RN HAPPY STATION 17655 17605
2015-2030 BBC SOCCER/SCIENCE 15260
2030-2100 HCJB SALUDOS AMIGOS 21455
2030-2100 BBC BRAIN OF BRITAIN 15260
2030+2100 KOSU OK SOUNDPRINT 91.7
2030-2130 RFPI SOUND CURRENTS OF SPIRIT 21465
2100+2200 KCSC OK WITH HEART & VOICE 90.1
2104+2124 RCI MAILBAG 13650 15325 17820 17850
2125-2150 Japan MEDIA ROUNDUP 11925
2155-2215 RHC EN CONTACTO 17705
2200+2300 KOSU OK pubaffs various 91.7
2200+2400 KCSC OK Oklahoma concerts/reqs 90.1
2200+2230 KMUW KS HORIZONS 89.1
2200+2230 KSNW KS SISKEL & EBERT 3 irregular
2204+2230 RCI ARTS CANADA 9755
2206-2300 HAM RADIO & MORE live 1510 AZ & MA etc
2215-2230 BBC SEEING STARS 15260 9590 first Sun
2230-2245 BBC LETTER FROM AMERICA 15260 9590
2230-2300 RFPI FAR RIGHT RADIO REVIEW 21465 15030
2230+2254 RCI MAILBAG 9755 5960 13670
2300-2330 RFPI WORLD OF RADIO 21465 15030 9400
2300+2330 WWCR WORLD OF RADIO 15685
2300+2330 KOSU OK CROSSROADS 91.7
2300-2330 Norway THIS WEEK 9655 11860
2300+2330 Radio Vilnius Lithuania 11770
2330-2400 BBC docus Baltics/Embalming... 9590
2330+2400 KOSU OK HORIZONS 91.7
2335-2425 RN EAST OF EDAM 6020 6165

MONDAY

0015-0030 BBC MARRIAGE & THRONE/SCIENCE FAILURES
0035-0125 RN HAPPY STATION 6020 6165 9840
0040-0057 CRI LISTENERS LETTERBOX 9780 11715

0100-0130 WHRI WORLD OF RADIO 9495
0100-0130 Norway TODAY 9560 11925
0101-0145 BBC special features 5975 9590
0115-0130 DW LIVING IN GERMANY 6040
0125-0150 Japan MEDIA ROUNDUP 5960
0130-0154 RCI MAILBAG 6120 9755
0131-0146 DW RANDOM SELECTION WITH WAYNE 6040
0137-0159 Korea SHORTWAVE FEEDBACK 15575
0145-0200 BBC CROSSING BORDER/MUSIC AS IT WAS 5975
0200+0300 KMUW KS AFROPOP WORLDWIDE 89.1
0200+0400 KRXO OK DOCTOR DEMENTO 107.7
0200+0300 KOSU OK MUSIC HEARTS OF SPACE 91.7
0207+0258 RCI QUIRKS & QUARKS 6120 9755 11845
0209+0300 WHO REJECTION SLIP THEATRE 1040
0215-0245 VOFC JADE BELLS & BAMBOO PIPES 5950 9680
0230-0300 BBC COMPOSER OF MONTH (Vivaldi June) 5975
0300-0400 RFPI NEW DIMENSIONS RADIO 7375 9400 15030
0300+0500 WRNO SHALOM AMERICA WORLDWIDE 7395
0315-0330 DW LIVING IN GERMANY 6085
0330+0400 WJR PERSPECTIVE-2 760
0330-0400 BBC ANYTHING GOES 5975
0330+0400 KCSC OK BEST OF OUR KNOWLEDGE 90.1
0331-0346 DW RANDOM SELECTION LARRY WAYNE 6085
0335-0425 RN HAPPY STATION 6165 9590
0335-0355 RHC EN CONTACTO 11760 6060
0340-0357 CRI LISTENERS LETTERBOX 9690 9780 11715
0400-0500 Mexico HORA NACIONAL 540 730 900 1050 etc
0400-0500 WHR DX RADIO SHOW 9495 17780
0400+0600 KRXO OK HEADSETS 107.7
0406+0459 WBAP ABC PERSPECTIVE 820
0407+0500 WWWE ABC PERSPECTIVE 1100
0405+ KGBS DRAGNET/OTR 1190 Dallas
0430-0530 RFPI SOUND CURRENTS OF SPIRIT 7375 9400
0430-0500 NZ MAILBOX alt TRAVEL PACIFIC 15115
0440-0457 CRI LISTENERS LETTERBOX 11680 11840+
0445-0500 BBC SOCCER/SCIENCE FAILURES 5975
0505+0530 KTOK OK WORLD NEWS THIS WEEK 1000
0510+ KMOX JACK BENNY/CLASSIC RADIO 1120 off?
0510+0900 KNBR movies/entertainment talk 680
0515-0530 DW LIVING IN GERMANY 5960
0530+0600 KTOK OK THIS WEEK WITH BRINKLEY 1000
0531-0546 DW RANDOM SELECTION WITH LARRY 5960
0607+0700 KTOK OK ABC PERSPECTIVES 1000
0630-0700 BBC docus Baltics/Embalming... 9640 5975
0630-0700 RFPI FAR RIGHT RADIO REVIEW 7375 9400
0637-0700 Korea SW FEEDBACK 11945 15155
0700-0730 RFPI WORLD OF RADIO 7375 9400 15030
0715-0745 VOFC JADE BELLS & BAMBOO PIPES 5950
0730-0800 BBC docus Sarajevo/Music Fest 9640 89.5
0830-0900 BBC ANYTHING GOES 89.5 KWGS
0930+0945 KQA comedy segment 850
1100-1200 RFPI NEW DIMENSIONS 9400 7375 15030
1130-1200 BBC COMPOSER OF MONTH 5965 9515 15220
1214-1300 RCI MAILBAG & INNOVATION 11855 9635 17820
1215-1245 BBC BRAIN OF BRITAIN 15220 9515
1230-1330 RFPI SOUND CURRENTS OF SPIRIT 21465 15030
1307+1319 RVI RADIO WORLD 15545 17775
1352-1424 RN RESEARCH FILE 9890
1445-1500 BBC MARRIAGE & THRONE 17840 9515
1515-1600 BBC DOCUMENTARIES=as Mon 0101 17840 15260
1530-1545 RFPI MUNDO RADIAL 21465 15030 9400
1552-1624 RN RESEARCH FILE 9890
1615-1635 BBC NEW IDEAS 15260 9515
1635-1645 BBC PERSONAL OBSESSIONS 15260 9515
1715-1745 BBC BRAIN OF BRITAIN 15070 12095
1752-1824 RN RESEARCH FILE 21590 17655
1800-1830 RFPI UNCONVENTIONAL WISDOM 21465 15030
1800+2000 KOSU OK LIBRARY OF CONGRESS CONCERT 91.7
1837-1900 DW AUF KURZER WELLE 17860 15275 (4th)
1930+2000 KKSU K-STATE PERSPECTIVE 580
1952-2024 RN RESEARCH FILE 17655 17605
2000-2100 RFPI ALTERNATIVE RADIO 21465 15030 9400
2030-2100 BBC VINTAGE CHART SHOW 15260
2130-2200 RFPI FOCUS ON AMERICAS/FOOD BOMBS 21465
2140-2200 Israel CALLING LISTENERS & DX 11603 9435
2200-2230 RFPI COUNTERSPIN 21465 15030 9400 7375
2215-2245 BBC ELLINGTON/BRAZIL MUSIC 15260 9590
2215-2245 VOFC JADE BELLS & BAMBOO PIPES 17750
2230-2330 RFPI NEW DIMENSIONS 21465 15030 9400

T U E S D A Y

0000+0130 KCSC OK CONCERTGEBOUW 90.1
0052-0124 RN RESEARCH FILE 6020 6165 9840
0130-0145 BBC FOLK ROUTES 9590 5975
0200-0230 RFPI UNCONVENTIONAL WISDOM 9400 7375
0200+0300 KCSC OK GALANTI HOUR (organ) 90.1
0230-0300 BBC BRAIN OF BRITAIN 9590 5975
0237-0300 DW AUF KURZER WELLE 6075 (4th Mon)
0315-0345 VOFC JADE BELLS & BAMBOO PIPES 5950 9680
0352-0424 RN RESEARCH FILE 6165 9590
0400-0500 RFPI ALTERNATIVE RADIO 7475 9400 15030
0445-0500 BBC ON SCREEN 5975
0605+0700 WWCR SOUND CURRENTS OF THE SPIRIT 7435
0630-0700 BBC MUSIC ELLINGTON/BRAZIL 9640
0717-0750 RNZI OCEANIA 11900
0730-0750 BBC NEW IDEAS 9640 89.5
0750-0800 BBC PERSONAL OBSESSIONS 9640 89.5
0815-0900 BBC CONCERT HALL KWGS 89.5
0915-0930 BBC MARRIAGE & THRONE/TIME MACHINE 89.5
0930-0945 BBC ON SCREEN 89.5
0930-1000 RNZI AROUND THE WORLD 6100 (6/14+4-wkly)
1000-1030 RFPI UNCONVENTIONAL WISDOM 9400 7375
1020-1045 RNZI OCEANIA 6100
1100+1130 TBN JOY OF MUSIC 14-OK & 7510 KTBN?
1130-1200 RFPI VOICES OF OUR WORLD 9400 7375
1200-1300 RFPI ALTERNATIVE RADIO 21465 15030 9400
1230+1300 WWCR WORLD OF RADIO 15685
1245-1300 Sweden MEDIASCAN 15240 17870 (1st & 3rd)
1330-1400 RFPI FOCUS AMS/FOOD BOMBS 21465 15040
1345-1400 Sweden MEDIASCAN 15240 17870 (1st & 3rd)
1440-1457 CRI LISTENERS LETTERBOX 7405 or 11855
1445-1500 BBC CROSSING THE BORDER 17840 9515
1715-1745 BBC COMPOSER OF MONTH 15070 12095
1715+1730 KOSU OKLAHOMA OPINIONS 91.7
1800-1830 RFPI SECOND OPINION 21465 15030
1830-1900 BBC DISCOVERY 15400
1900-1930 RFPI WORLD OF RADIO 21465 15030 9400
1930-2000 RFPI MAILBAG 21465 15030 9400
1930-2000 BBC THE JIVE ZONE 15400
2000-2030 RFPI SECRET SIDE OF FREE TRADE 21465
2030-2100 BBC MERIDIAN 15260
2030-2100 RFPI FOCUS ON HAITI/AMERICAS 21465 15030
2130-2150 RHC DXERS UNLIMITED 17760
2130-2145 BBC CALLING THE FALKLANDS 13660
2230-2250 RHC DXERS UNLIMITED 9550
2300-2330 RFPI FOOD FOR THE THOUGHTFUL 21465 15030
2330-2400 BBC OMNIBUS 15260 9590 6175 5975

W E D N E S D A Y

0000+0200 KOSU OK CONCERTGEBOUW 91.7
0000+0200 KCSC OK BALTIMORE SYMPHONY 90.1
0015-0100 BBC CONCERT HALL 15260 9590 5975

0040-0055 RHC DXERS UNLIMITED 6010 13700
0040-0057 CRI LISTENERS LETTERBOX 9780 11715
0130-0146 DW ARTS IN GERMANY 6040
0130-0145 BBC PLAYING A PART/SOUND BUSINESS 9590
0200-0230 RFPI SECOND OPINION 7375 9400 15030 21465
0209+0240 WHO FIBBER McGEE & MOLLY 1040
0240-0255 RHC DXERS UNLIMITED 6010 9820
0245-0259 Sweden MEDIASCAN 6040 9850 (1st & 3rd Tue)
0300-0330 RFPI WORLD OF RADIO 7375 9400 15030 21465
0300+0330 KPTS KS MEDIA WATCH 8
0330-0350 DW INSIGHT 6085
0330-0400 BBC DISCOVERY 5975
0330-0400 RFPI MAILBAG 7375 9400 15030
0340-0357 CRI LISTENERS LETTERBOX 9690 9780 11715
0345-0359 Sweden MEDIASCAN 6040 9850 (1st & 3rd, Tue)
0400-0430 RFPI SECRET SIDE OF FREE TRADE 7375 9400
0430-0500 RFPI FOCUS ON HAITI 7375 9400 15030
0440-0455 RHC DXERS UNLIMITED 9820 9550
0440-0457 CRI LISTENERS LETTERBOX 11680 11840+
0530-0546 DW ARTS IN GERMANY 5960
0630-0700 BBC MERIDIAN 9640 5975
0815-0830 BBC SCIENCE FAILURES/POP QUESTION 89.5
0930-0945 BBC PLAYING A PART/SOUND BUSINESS 89.5
1020-1045 RNZI IN A STRANGE LAND 6100
1100-1130 RFPI WORLD OF RADIO 9400 15030 7375
1130-1200 RFPI MAILBAG 9400 15030 7375
1130-1200 BBC MERIDIAN 9515 5965
1200-1230 RFPI SECRET SIDE OF FREE TRADE 21465 15030
1215-1235 BBC NEW IDEAS 15220 9515
1230-1300 RFPI FOCUS ON HAITI 21465 15030 9400
1235-1245 BBC PERSONAL OBSESSIONS 15220 9515
1250+1255 CBS SISKEL REVIEW (or 1315, 1350) TV
1352-1424 RN DOCUMENTARIES 9890
1452-1524 RN ENCORE 9890
1515-1530 BBC FROM OUR OWN CORRESPONDENT 17840 15260
1530-1600 BBC 2 CHEERS/REDUCED SHAKESPEARE 17840
1530-1600 Australia SCIENCE FILE 11695
1552-1624 RN DOCUMENTARIES 9890
1615-1645 BBC ELLINGTON/BRAZIL 15260 9515
1715-1730 BBC PLAYING PART/SOUND BUSINESS 15070
1730-1745 BBC ON SCREEN 15070 12095
1752-1824 RN DOCUMENTARIES 21590 17655
1800-1830 RFPI AI/CFRU/RCBS 21465 15030
1852-1924 RN ENCORE 21590 17655
1900-1930 RFPI CHANGEMAKERS 21465 15030
1930+2000 KKSU KS SOFTWARE HARDTALK 580
1930-2000 BBC OMNIBUS 17880
1930-2030 RFPI NEW DIMENSIONS RADIO 21465 15030
1930-1958 HCJB HAM RADIO TODAY 21455 17790 15270
1952-2024 RN DOCUMENTARIES 17655 17605
2030-2100 BBC ASSIGNMENT 15260 15400
2030-2100 RFPI VOICES OF OUR WORLD 21465 15030
2100-2128 HCJB HAM RADIO TODAY 21455
2130-2140 HCJB THE LATEST CATCH 21455 15270 11835
2130-2200 RFPI VIETNAM VETERANS RADIO NET 21465
2215+2250 Turkey REVIEW OF FOREIGN MEDIA & LETTERBOX & COMMON FREQUENCY & YOUR OWN VOICE 9445
2215-2245 BBC DOCUS Baltics/Music Fest 15260 9590
2352-2424 RN ENCORE 6020 6165

THURSDAY

0000+0200 KOSU OK ST PAUL CHAMBER ORCHESTRA 91.7
0015-0100 BBC RAY ON RECORD 15260 9590 5975
0052-0124 RN DOCUMENTARIES 6020 6165 9840
0100-0128 HCJB HAM RADIO TODAY 9745 11925
0130-0140 BBC WAVEGUIDE 15260 9590 6175 5975
0152-0224 RN MEDIA NETWORK 12025 9860
0200-0210 HCJB THE LATEST CATCH 21455 11925 9745
0230-0300 BBC OMNIBUS 15260 7325 6175 5975
0300-0330 RFPI CHANGEMAKERS 7375 9400 15030
0315+0350 Turkey see Tue 2215 9445
0330-0358 HCJB HAM RADIO TODAY 21455 11925 9745
0330-0400 BBC ASSIGNMENT 5975
0330-0430 RFPI NEW DIMENSIONS RADIO 7375 9400
0352-0424 RN DOCUMENTARIES 6165 9590
0400-0410 HCJB THE LATEST CATCH 9745 11925 21455
0430-0500 Educacion DX-6185 6185
0430-0500 RFPI VOICES OF OUR WORLD 7375 9400
0445-0500 BBC FROM OUR OWN CORRESPONDENT 5975
0530-0558 HCJB HAM RADIO TODAY 11925
0630-0700 BBC ASSIGNMENT 9640 5975
0752-0824 RN MEDIA NETWORK 9720
0830-0900 RNZI MAILBOX alt TRAVEL PACIFIC 6100
0910-1000 RNZI ON THE MARCH 6100
0915-0945 BBC CORRESPONDENT & FARMING WORLD 89.5
0952-1024 RN MEDIA NETWORK 9720
1000-1030 RFPI AI/CFRU/RCBS 15030 9400 7375 &0200
1130-1200 BBC 30 MINUTE THEATRE 5965 9515
1130-1200 Japan CROSSCURRENTS 6120
1130-1230 RFPI NEW DIMENSIONS 9400 15030 21465
1306+1400 KCSC OK SPOTLIGHT ON THE ARTS 90.1
1330-1400 RFPI VIETNAM VETERANS R NET 21465 15030
1352-1424 RN MEDIA NETWORK 9890 13700
1515-1600 BBC RAY ON RECORD 17840 15260 9515
1552-1624 RN MEDIA NETWORK 9890
1715+1730 KOSU OK INTERMISSION 91.7
1715-1745 BBC 30 MINUTE THEATRE 15070 12095
1752-1824 RN MEDIA NETWORK 21590 17655
1900+1930 KSBI OK JOY OF MUSIC 52
1900-2000 RFPI ALTERNATIVE RADIO 21465 15030 9400
1930-2000 BBC ON THE MOVE & FARMING WORLD 17880
1930-2000 BBC SPICE TAXI 15400
1930+2000 KKSU KS SPECIAL ASSIGNMENT 580
1952-2024 RN MEDIA NETWORK 17655 17605
2000-2030 RFPI FOOD FOR THE THOUGHTFUL 21465 15030
2030-2100 BBC MERIDIAN 15260 15400
2145+2155 KFOR OK FEMALE HEALTH Q&A 4
2300-2330 RFPI BAHAI PEACE TALKS 21465 15030 9400
2330-2400 BBC 2 CHEERS/REDUCED SHAKESPEARE 9590

FRIDAY

0000+0200 KCSU OK CLEVE ORCH/OK MOZART 91.7
0000+0200 KCSC OK CHICAGO SYMPHONY 90.1
0015-0100 BBC MUSIC REVIEW 15260 9590 7325 5975
0052-0124 RN MEDIA NETWORK 6020 6165 9840
0130-0146 DW COME TO GERMANY 6040
0130-0145 BBC ON THE MOVE 15260 9590 6175 5975
0145-0200 BBC GLOBAL CONCERNS 15260 6175 5975
0230-0300 BBC 30 MINUTE THEATRE 15260 7325 5975
0300-0400 RFPI ALTERNATIVE RADIO 7375 9400 15030
0320-0340 CRI CULTURE IN CHINA 9690 9780 11715
0330-0346 DW SCIENCE & TECHNOLOGY 6085
0352-0424 RN MEDIA NETWORK 6165 9590
0400-0430 RFPI FOOD FOR THE THOUGHTFUL 7375 9400
0415-0435 Spain LADINO 9690
0430-0500 RNZI CALLING PITCAIRN alt RUDY HILL 15115
0530-0546 DW COME TO GERMANY 5960
0730-0800 BBC LIVING SOIL/BRUSH UP SHAKESPEARE
0815-0900 BBC MUSIC REVIEW 89.5
0915-0945 BBC GLOBAL CONCERNS & ON THE MOVE 89.5
1100-1200 RFPI ALTERNATIVE RADIO 15030 9400 7375
1130-1200 BBC MERIDIAN 5965 9515 6195

1200+1230 WWCR THE OLD RECORD SHOP 15685
1200-1230 RFPI FOOD FOR THOUGHTFUL 21465 15030 9400
1215-1245 BBC LIVING SOIL/BRUSH UP SHAKESPEARE 9515
1229+1235 KOSU OK FROSTY TROY POLITICAL REVIEW 91.7
1250+1255 CBS TV SISKEL VIDEO REVIEW time varies
1445-1500 BBC GLOBAL CONCERNS 17840 9515
1500+1530 KOKH OK SPOTLIGHT ON OKLAHOMA 25
1515-1600 BBC MUSIC REVIEW 17840 15260 9515
1615-1645 BBC SCIENCE IN ACTION 15260 9515
1715-1745 BBC MUSICIAN'S MUSICIAN 15070 12095
1715+1805 KOSU OK BROADWAY MUSICALS 91.7
1800-1830 RFPI COMMON GROUND 21465 15030 9400
1830-1900 RFPI FAR RIGHT RADIO REVIEW 21465 15030
1900-2000 RFPI NEW DIMENSIONS RADIO 21465 15030 9400
1930-2000 BBC LIVING SOIL/BRUSH UP SHAKESPEARE 17880
1930-2000 HCJB MUSICA DEL ECUADOR 21455 17790 15270
2000-2030 RFPI WORLD OF RADIO 21465 15030 9400
2030-2100 RFPI MAILBAG 21465 15030 9400
2030-2100 BBC SCIENCE IN ACTION 15400 15260
2115+2145 WWCR WORLD OF RADIO 15685
2130+2135 KOSU OK FROSTY TROY POLITCAL REVIEW 91.7
2130-2145 BBC CALLING THE FALKLANDS 13660
2200-2230 RFPI UNCONVENTIONAL WISDOM 21465 15030
2230-2300 RFPI SECOND OPINION 21465 15030 9400 7375
2302-2331 WHRI WORLD OF RADIO 7315
2303-2324 RN RADIO ENLACE 11715
2330-2400 HCJB MUSICA DEL ECUADOR (Spanish) 15140
2352-2424 RN DOCUMENTARIES 6020 6165

M U L T I - D A Y

0042-0052 MRI LETTERBOX 5850 9430 Tu-Sa
0142-0152 MRI LETTERBOX 5850 9430 Tu-Sa
0205+0300 CBW IDEAS 990 Tu-Sa
0207+0500 Mutual JIM BOHANNON 690 960 1150 Tu-Sa
0209+0300 WHO OLD TIME RADIO 1040 Tu-Sa
0242-0252 MRI LETTERBOX 5850 9430 Tu-Sa
0342-0352 MRI LETTERBOX 5850 Tu-Sa & 0442
0400+1100 KCSC OK PRI MUSIC THRU THE NIGHT 90.1 D
0430-0445 BBC OFF THE SHELF 5975 M-F
0500+0600 WBBM OLD TIME RADIO 780 D?
0507+0800 WHO GIL GROSS 1040 Tu-Sa
0607+0900 WOAI JIM BOHANNON 1200 Tu-Sa
0715-0730 BBC OFF THE SHELF 9640 M-F
0805+0820 WJR PAUL HARVEY noon repeat 760 Tu-Su
0806+ WCCO GIL GROSS 830 Tu-Sa
1326+1328 KTOK OK FROSTY TROY COMMENT 1000 alt DM-F
1328-1330 KRMG OK FROSTY TROY COMMENTARY 740 M-F
1405-1430 BBC OUTLOOK 17840 9515 M-F
1430-1445 BBC OFF THE SHELF 17840 9515 M-F
1442-1452 MRI LETTERBOX 11900 M-F (tech 1st Mon?)
1700+1715 ABC PAUL HARVEY 1070-KS etc etc
1842-1852 MRI LETTERBOX 17510 M-F
1905-1930 BBC OUTLOOK 17880 M-F
1907+2200 Mutual DAVID BRENNER M-F
1942-1952 MRI LETTERBOX 15665 17510 M-F
2015-2030 BBC THE WORLD TODAY 15260 M-F
2015-2030 BBC OFF THE SHELF 15400 M-F
2030+2100 Radio Dniestr International 15290 Sa-Th
2042-2052 MRI LETTERBOX 15665 13770
2118-2119 WWV PROPAGATION UPDATE 15000 10000 +hrly
2142-2152 MRI LETTERBOX 15665 13770
2230+2400 RCI AS IT HAPPENS 5960 9755 13670 M-F
2242-2252 MRI LETTERBOX 13770 17555
2245-2300 Voice of the OAS 9670 11730 15155 M-F
2300+2359 KMUW KS NPR FRESH AIR 89.1 M-F
2342-2352 MRI LETTERBOX 13770 17555

ABOUT SHOWS WE LIKE This is an adaptation of gh's personal monitoring schedule reflecting our interests--little or nothing re sports, religion, right-wing talk, economics, rock music, and newscasts so numerous are omitted. Apologies to listeners too far from us to use KS & OK FM items, but they may give you ideas to search locally. (+) in a time means normally switches one UT hour later during standard time. Days strictly UT.

BELGIUM (via Richard Lemke, Alta) RVI BRUSSELS CALLING: Mon 1800/2100/2300+Tue 0630/0900/1300: BELGIUM TODAY, FOCUS ON EUROPE, SPORTS. Tue/Wed: LIVING IN BELGIUM, P O BOX 26. Wed/Thu: AROUND THE ARTS, GREEN SOCIETY. Thu/Fri: ECONOMICS, NORTH-SOUTH, all following NEWS, PRESS REVIEW, BELGIUM TODAY. Fri eve: AROUND THE ARTS, TOURISM Sat all bcs: NEWS, PRESS REVIEW, RADIO WORLD, TOURISM. Sun all: NEWS, P O BOX 26, MUSIC FROM FLANDERS. Mon morn: NEWS, PRESS REVIEW, RADIO WORLD, TOURISM IN FLANDERS.

FINLAND YLE R Finland: Tue-Fri COMPASS NORTH, PRESS REVIEW, then: Tue SPORTS, NORTHERN LIGHTS. Wed ENVIRONMENT REPORT. Thu FINNISH HISTORY. Fri CULTURE CLOSE-UP, all followed by N LIGHTS. Sat COMPASS NORTH, STARTING FINNISH, CAPITAL COFFEE-BREAK. Sun COMPASS NORTH, FOCUS, NUNTII LATINI. Mon COMPASS NORTH, ECONOMIC ROUNDUP.

GUAM (via Gigi Lytle) AWR-Asia programs which by titles are possibly partially secular: Sun 0200 AWR MAGAZINE, 0215 DX ASIAWAVES, 0230 PACIFIC JOURNAL. 1600 AWR MAGAZINE, 1615 DX ASIAWAVES. 2300 AWR MAGAZINE. Sat 0200 DIG UP THE PAST. 1600 PACIFIC JOURNAL, 1615 DX ASIAWAVES, 1630 DIG UP THE PAST. 1700 PACIFIC JOURNAL. 2300 PACIFIC JOURNAL, 2315 DX ASIAWAVES, 2330 DIG UP THE PAST.

ISRAEL & HUNGARY see p. 43, June MONITORINGTIMES

RUSSIA (Alex Ageenkov, USENET via Geo. Thurman) Selected R. Moscow WS Mar-Sept. programs: ADAMOV MAILBAG Mon 0011, 0211, 2011, Tue 0611, Wed 1311, Thu 0211, 2131, Fri 0911, Sat 0211, Sun 0011, 0211. RUSSIAN BY RADIO Mon 0031, 0631, 1231, 2231, Tue 1031, 1631, Wed 0231, 0731, 1331, 2231, Thu 1031, 1631, Fri 0231, 0731, 1331, Sun 0631, 1431. JAZZ SHOW Mon 0431, 2031, Tue 1731, 2331, Wed 1431, Thu 0131, 1131, 2331, Fri 0831, 2031, Sat 0131. SCIENCE & ENGINEERING Mon 0611, 1011, 2131, Tue 1611, Wed 0211, Thu 0911, 2011, Fri 0611, 2131, Sun 0511, 1311. CULTURE & THE ARTS Mon 0911, 1511, Tue 2131, Wed 1611, Thu 1311, Fri 2011, Sat 0611, Sun 1011, 1611. AUDIO BOOK CLUB Mon 0931, 1331, 1631, Tue 0231, 0731, 2231, Wed 1031, Thu 0231, 0731, 1331, 2231, Fri 1031, 1631, Sat 0231, 0731, 1331, Sun 0031, 1031, 1631, 2231. FOLK BOX Mon 1431, Tue 0131, 1131, Wed 0831, Thu 0431, 2031, Fri 1731, 2331, Sat 0831, Sun 2331.

TAIWAN (via Gigi Lytle) VOFC May-Sept features between NEWS and LET'S LEARN CHINESE daily :15-:45: 0200, 0700, 2200, next UT day 0300: Sun EAST MEETS WEST, MAILBAG TIME. Mon JADE BELLS & BAMBOO PIPES. Tue KALEIDOSCOPE, TAIWAN ECONOMIC JOURNAL. Wed MAIN ROADS & BYWAYS, MUSIC BOX. Thu PERSPECTIVES, JOURNEY INTO CHINESE CULTURE. Fri CONFRONTATION, NEW RECORD TIME. Sat REFLEX, JADE KITCHEN

th LOREN COX *Knowledge?*

e *'in the flash of an eye' (øjeblikket)*

me *without criteria?*

di *all values from eras that are past,*
technology has added a nuance?

a *'a timbre,*
a pitch,

m *a duration'*

ind *Do we have 'concepts'? We have*
dimensions of assessment

26 JANUARY 1994: "Man's satellites have gone astray" wrote Kentucky poet James O. Jordan in 1950, and indeed two of them did last week, one temporarily, and the other evidently forever. We are referring to the accident/anomaly or whatever one may choose to call it which caused Telesat Canada's ANIK E1 and ANIK E2 satellites to spin out of control, the latter only within hours of the former, last Thursday (20/1) - an unprecedented occurrence in the history of geostationary satellite communications. We were not aware of this situation until Friday afternoon, our "dish" having been frozen for several days - minus 20 deg. F/ weather will do that sort of thing - on the ASC 1 satellite where we had been listening to the new WORLD RADIO NETWORK from London, which can be found in North America on SCOLA's (Ch. 23) 6.2 MHz subcarrier (wideband). (More on WRN later.) By Friday afternoon there had been sufficient warming to permit "dish" movement, so we started a trek toward the east with it, pausing at G5, etc., until we arrived at the orbital slot of ANIK E1. We happened to be tuned to Ch. 2, and was surprised when there appeared on the screen TSN (THE SPORTS NETWORK) - un scrambled. It it had always been on AE2, Ch. 2, scrambled. We thought at first it might have been a special TSN transmission, but didn't recall ever having seen video on AE1/2. But then we tuned down through the AE1 transponders, and found services that are normally on AE2, tho' not in all instances on the same channels. What's going on? We then moved over a few degrees to the AE2 orbital slot and found - nothing, no active channels. What's happened? Going back to AE1, we noticed several normally scrambled channels "in the clear" and no CBMT, normally on AE2/20, Ch. 20 ao AE1 being vacant. We scanned around checking for subcarriers: most appeared to be back up on the services whose video carrier provides a pilot carrier for them. Before long CBMT lit up Ch. 20 with the usual CBC Radio subcarriers, tho' no BBCWS on the 7.56 MHz subcarrier (actually BBCWS had disappeared from this subcarrier some days before; the sc is now carrying the French language programming that is also on the 7.38 MHz sc). We knew there would be news on CBMT at 6:00 pm EST, so we were interested to see if there were would be some indication, a story, explaining the strange absence of AE2, the transferring of services to AE1 (a Ku Band check of AE1 abd AE2 was also made, revealing the same situation as the one obtaining on C Band - Ku Band services normally on AE2 were on AE1, nothing on AE2). And there was a story in the news program which confirmed the only explanation we could think of: something had gone wrong with AE2. And not only that, AE1 had had a serious problem also, producing a crisis of unprecedented magnitude for the various telecommunications services who use those satellites. The explanation provided for the satellite accidents is that a solar geomagnetic disturbance so affected the "wheel" (the digitally controlled guidance mechanism) in each satellite so as to send them tumbling out of control. That was made possible because of the occurrence of a larger than normal coronal hole. The best explanation of the "science" of it all was provided on the following Saturday's "Quirks and Quarks", which included an interview with an Intelsat engineer in Washington. The INTELSAT K satellite, which at 21.5 deg. W. is at a considerable distance on the arc from the Canadian satellites, suffered a similar accident, tho' as with

ANIK E1, control of the satellite was re-established after a period of outage. (Among services that were affected were Deutsche Welle Radio & TV which use IK for transmission to North and South America. Loss of IK meant no DW on Satcom C4, which is an uplinking of the downlinked IK transmission. Since we weren't watching/listening to DW during this period, we weren't aware of any problem.) According to the discussion on Q&Q this solar phenomenon occurs on 27 day cycles, and has produced satellite stabilization problems, but nothing of the severity or magnitude of the ANIK E2 and lesser ANIK E1 and INTELSAT K accidents. (But I just remembered that several years ago, something similar happened with the SATCOM K2 satellite, used by NBC for program feeds and "backhauls", with NBC having temporarily to move to the adjacent SATCOM K1 satellite, bumping the DBS service on that satellite.) So the satellite establishment and users will be a bit more nervous in about four weeks from last Thursday than they otherwise would have been.

When Ku band services were moved from AE2 to AE1 there appeared to be no more spot beaming, as we are now receiving services intended for western Canada which we had not been receiving before, including a very listenable FM station, CKUA in Edmunton, Alberta. Programming for western Canada, as before, is on vertically polarized transponders, those channels for eastern Canada remaining on horizontally polarized transponders. We also noted signal strength variations on these Ku Band transmissions: still some satellite instability? or the result of local weather conditions?

Among services affected during the period of outage of ANIK E1 were the satellite feeds of RCI to Sackville and the feeds of other international broadcasters radiated from RCI's transmitters. These satellite feeds, which include the BBCWS, are transmitted in a digital format on a vertically polarized transponder on ANIK E1. Two of the full time video channels that had been on AE1, TV 5 QUEBEC and the Eskimo channel remained there after the doubling up with what had been on AE2. But the biggest video user of AE1, the CTV Network, with three transponders, moved to the U.S. Galaxy 6 satellite, the closest U.S. satellite to the Canadian ones. Have been up "in the clear" (are normally Leitch encrypted). We've also noted some Canadian "backhauling" on the Ku Band portion on Galaxy 7.

Another service that had been on ANIK E1, is the is hard core, pornographic, wall-to-wall gangbanging channel, CANADIAN EXXXASTY (operating from 8:00 pm to 4:00 am EST every night). Would that mean an end to this new venture in endless repetitions of cunnilingnus, fellatio and coitus interruptus seen in every detail and visual nuance? No. The service - rather surprisingly - moved to the U.S. satellite, Galaxy 3 (Ch. 8). The rationale for using a Canadian satellite and identifying as a Canadian company was to avoid the problems encountered by AMERICAN EXXXASTY, which resulted in that channel's demise. Initial reports had CE being uplinked from Minnesota, but we now know that is not the case, because when CE programming concludes the transponder remains lit with colour bars and the letters OTWA TOC (Ottawa Technical Operations Center). Interestingly, on G3/8, the service is not being identified on-screen - no announcements of any sort: the movies are simply being run, VideoCipher II+ encrypted for this subscription service. Since I'm not subscribed, and do not have an illicit decoding device, how do I know what's going on on CA? A little trick with the Drake ESR1124 IRD. Hit the video invert button, then the view button (both on the remote control): the result is a perfectly clear picture but with no colour (of course, no audio). The only problem, the pricture moves across the screen from left to right [note the Freudian slip], but not fast enough to cause the action to be missed, and more slowly from bottom to top. Can be quickly reframed vertically by tuning off channel then back on and going through the procedure indicated above. Everyone said CA was a scam, would never go up, but it did after some delay, tho' we would

not anticipate a long operating life for it, based on the history of these types of channels. (The quasi-pornographic SPICE channel continues [T303/20, VCII+] and are even putting up two more channels with the same type of material. Have also heard of a similar channel called ADAM AND EVE going up.)

A consequence of this sudden halving of the number of transponders available for Canadian telecommunications users (tho' we believe one of the C series of Ku Band satellites is still being used for data transmissions) will most likely be an acceleration of the move to digital compression of video and audio services for more efficient transponder usage. Some Canadian programmers have already gone "digital", including Y-TV and VISION. And ground based distribution systems, i.e., fibre-optics, could get a further boost as users of satellite distribution might be made a little nervous because of the ANIK experience. It happened once; it could happen again?

27/1: Galaxy 3, of course, is that satellite very busy with home shopping channels, five or six, we believe, including S-A-H out of Knoxville. Another shopping service, with two channels on G3, also out of Knoxville, was putting up a couple of Knoxville FM stations on subcarrier for a while.

Also on Galaxy 3: have noted TV ASIA "in the clear" on Ch. 7. This channel carries programming from India. Channel 5, which carries RTP Portugal is VCII+ encrypted. Channel 9 in the evening carries programming from Greece, also VCII+ encrypted. CHRISTOS RIGAS, Chicago, informs us that the video is ANTENA TV from Athens. (During the day SATELLITE MARKET USA is on this channel selling satellite reception equipment.) The accompanying subcarrier audio channel, which we have mentioned previously, Christos identifies as ANTENA FM STEREO, "which broadcasts on 97.1 MHz in Athens". it is up full time. The subcarrier transmission, which reads out to 5.83 MHz (narrowband), is monophonic.

Before leaving Galaxy 3, mention must be made of a new audio service, the OMEGA NETWORK, which is found on Ch. 17, 5.8 MHz (the video on this transponder is SHOP AT HOME). OMEGA is evidently something of a successor to the defunct LET'S TALK RADIO, carrying some of the programming formerly heard there, including GARY BOURGEOIS' lively TVRO news and discussion program on Friday evenings (9:00 pm EST). BILL BRAGG's YESTERDAY USA SUPERSTATION, at least through February, continues on the 6.2 MHz subcarrier on the S-A-H transponder (a downlinking/uplinking of the origination feed on Spacenet 3, Ch. 5, 6.8 MHz). But the future of YUSA is very much in doubt. Bill, who personally financed so much of the station's operation, has lost his job at KDFW, Dallas, which he had held for 27 years (he spent most of last year battling cancer). In an effort to stay on the air, Bill is asking as many as 300 of his listeners to contribute approximately $260 per annum, saying that he wants to work full time for the listeners, who would in effect be his employers. YUSA would be set up as a non-profit corporation with, I gather, Bill and his wife as the CEOs, drawing salaries from the corporation. Unfortunately this poses something of a problem for your threadbare ("radio poor") correspondent, because, as much as we enjoy and appreciate Bill's endeavours, we don't think we can make that much of a contribution. The problem all along with YUSA has been an audience not commensurate in size with the quality of the programming being presented; there should be thousands of loyal listeners instead of only a few hundred; that would make possible much smaller individual contributions for the station's continuance. Even if YUSA continues, there will have to be cutbacks, including discontinuance of the quartely publication AIRWAVES, which had been an outlet for some of our radio memoirs.

If YUSA should go, it can be compensated for in a very small way locally: WVLK, Lexington (590) is now carrying the syndicated "When Radio Was" on Sunday evenings from 9:00-12:00 pm EST. We believe WBBM, Chicago (780) is still carrying some old time radio, but after midnight CST.

Latest reports (as of this writing) on the ANIK situation: an attempt is to be made to see if ANIK E2 can be restored to stability, and thus rendered usable, by means of very careful steering making use of small, controlled, expulsions from the steering gas jets. The steering gas is normally used only to keep the satellite "in the box", not for orientation for signal reception/transmission. This manoeuver may work, but by using up the steering gas more quickly than otherwise would have been the case, the useful life will be shortened by several years, but that would be better than the present situation of its total uselessness. By the time these remarks shall have appeared, ANIK E2 may again be up and running.

Another matter that has come to light. Of the three satellites affected in this presumably solar induced accident, it appears that the "wheel", the satellites' digitally controlled stabilization mechanisms, were all Martin-Marietta products, that were somehow more vulnerable to a solar particle "invasion" than are similar mechanisms on other satellites.

The older Anik C3 (or is it C1?) satellite, just to the west of E1, used for data transmission, unscathed, continues to operate.

29/1: The ANIK accident provided the material for the opening skit on last night's "Air Farce" (TV version). On the previous week's TV "Air Farce", the Bobbitt matter came up (in the only way it can? - sorry) in the form of Luba Goy made up as Mrs Bobbitt doing an infomercial for - what else - that most cutting of knives, wielding it with gusto against appropriately shaped vegetables.

31/1: More on the ANIK accident on yesterday's CBC "Sunday Morning". Sabotage pretty much discounted. Those energetic electrons streaming from a coronal rip, entering the spacecraft, appears to be the most likely explanation, their number & energies being more than the device which keeps the satellite aimed properly with respect to the earth could bear. An expert felt that trying to restore the required attitude stabalization by means of the thruster jets would not likely prove to be practicable; had best just write off AE2 as a loss. During Feb., there will be another occurrence of the solar phenomenon that presumably resulted in the ANIK accident. The question and concern is, will it be of the same or greater intensity as the last one? We wonder: since this phenomenon is a cyclic occurrence, can it, with continual repetitions, have a cumulative effect? This last event was the straw etc., for the particularly vulnerable AE satellites? They (and possibly Intelsat K) must have a flaw that other Clarke Belt satellites do not have? (vide supra).

Last evening we succumbed (<u>pace</u> gh) to some viewing of the Super Bowl. Didn't really intend to, but encountered a feed of it (NBC's) on Galaxy 7, Ch. 23, in VideoCipher II, fixed key. No idea why it was being transmitted in that format; excellent picture. Of course, at 8:00 pm EST, we had to go over to Galaxy 4, Ch. 15, to catch "World of Radio" on WHRI's via satellite studio to transmitter link. Really enjoy listening to gh in "hi-fi" again for the first time since his days at WUOT, Knoxville. Actually, before going to WHRI (sat), on a CBS transponder on G4, we caught a vintage Mike Wallace interview with Janet Flanner, evidently made shortly before her death in 1978. About Paris in the '20s, the writers & artists, with film footage and stills.

Noted this weekend continuous olde tyme radio shows on WSAI (1360), Cincinnati. This station normally carries sports call-in shows. According to an announcement, the programs are being presented "all this week". An experiment with a new format? Several "Green Hornet" and "Gang Busters" shows in succession Saturday morning & afternoon. These were Blue Network shows that would have been broadcast originally on WSAI, a Blue Network affiliate in those days. (As a Crosley owned station, WSAI was the "little brother" of the once 500 kw. WLW [700] in Cincinnati.) Appropriately, we were

listening on the recently restored Western Auto Truetone Model D727, the model of radio on which we heard WW II, discovered shortwave, heard the great radio shows (and some not so great ones, but now have nostalgia value), and gave us an early musical exposure and education.

3/2: RADIO DEUTSCHE WELLE (auf Deutsch) is now available in stereo via satellite in Europe and North America. To be found on the Deutsche Welle TV transponders on Eutelsat II-F1, Intelsat K and Satcom C4: subcarrier frequencies, 7.02-7.20 on Eutelsat, and 7.38-7.56 MHz on both Intelsat K and Satcom C4 (7.02-7.20 on C4 also sounded stereo when we checked). Radio DW in other languages has been moved to 7.74 MHz on both I K & C4.

NEWS from CTS TAIPEI (Chinese) is up at 9:00 am EST on Galaxy 7, Ch. 16.

The TELSTAR 401 satellite, launched 15 Dec., 1994, is now operational, with Ku Band transponders let up this week with PBS test transmissions: 4 channels analog (program services A, B, C and D) and one transponder with digital format transmissions. PBS are to have one analog channel on the C Band portion of T401 (a so-called "National Program Service") to appease the "dish-heads" PBS despise when all of their Ku Band transmissions, in about a year, become digitally compressed - when that happens, note a deterioration in picture quality on your PBS station: motion artifacts, colour shifting, etc. Programming is to begin on the new transponders this weekend, with the transmissions on Spacenet 4 quickly to be discontinued (ending 7/2). PBS are reportedly to use the General Instrument(s) Digicipher I system. T401 is to be come the "educational satellite", being used by virtually all educational television services, including, as I understand it, SCOLA. Presumably reception devices for the digital transmissions will not be available to the general public that largely pays for it all. Sweet people, this PBS crowd. [The above may be incorrect, vide infra.]

UAE DUBAI TELEVISION continues "in the clear" on Galaxy 7, Ch. 17, but have disappeared from the Ku Band transponder on PanAmSat 1 (PAL format) on which we had also been receiving them. Had thought this was the feed that was being re-uplinked to G7, evidently not. May still be on PanAmSat but I am not set up to receive that satellite's C Band transponders, and only some of the Ku Band transponders. Belgrade television, which had been up evenings (7:00 pm EST) on PanAmSat (11.760 GHz), has been missing for same time. This transponder carries newsfeeds from London and other traffic (sports). BBCWS is available on PAS (Ku) SCPC except for intervals of programming for Latin America.

NHK, New York, have disappeared from Galaxy 6, Ch. 22; NHK, Tokyo, remains available on PAS-1, 11.918 GHz.

When digital compression holds domain over all we expect all international television will be clustered on one or a couple or so transponders on one satellite, international radio there also. When this happens will I subscribe - presuming a subscription is available - or just write-off "satellite" and go back full time to shortwave radio? Even now we can sometimes be listening to something, enjoying doing do, on the little antique Echophone EC-1 we've got working, when it is available in full fidelity via satellite. Of course, when a program from international radio is to be recorded, if so available, it is via satellite.

Amor
be thine armor
no weaponry assaileth its light

WHICH BRINGS US TO

what is the ultimate, as of this writing, in a variety of international broadcasters available via satellite on one satellite transponder, all on one subcarrier:

we are referring to the new satellite transmitted audio service: the WORLD RADIO NETWORK from London, which began operation for the European audience in October, and for North America in January of this year (test transmissions

began in December, but we weren't aware of them until early January when, pausing on SCOLA (ASC-1, Ch. 23) one Sunday afternoon, we checked the 6.2 MHz subcarrier (which had been carring the TV audio -// 6.8 MHz or English language translation of the Japanese [NHK] news) and heard what turned out to be programming from RTE Radio One, Dublin. Needless to say, we were intrigued. Continued listening revealed the service to be the WORLD RADIO NETWORK, presenting the English language services of a number of international broadcasters, as well as programming from domestic broadcasters in English speaking countries. There are two WRN services, one for Europe transmitted on the Astra 1B satellite, 11.538 GHz (Ch. 22), 7.38 MHz (the MTV Europe transponder), and the other for North America, transmitted as indicated above. There are some divergencies of programming, evidently all involving National Public Radio news programs ("Morning Edition", "All Things Considered"), which are heard only on the WRN's European Service. Headquartered in London, WRN programming is (with a couple of exceptions) "studio quality", evidently being taken from satellite (or maybe some are fibre optic?) feeds. Not sure of how WRN is transmitted to North America for SCOLA uplinking from McClelland, IA. Have writ to the Iowa address as announced on the transmissions (a London address is also given) for such information and a schedule, but have thus far received nothing.

There have been a number of technical glitches in the WRN operation thus far, with breaks in transmission (unmodulated carrier) and announced programming not coming up at all - either something different than announced or silence. Our suspicion is that WRN is an automated/computer controlled operation, which means things go wrong with no one, except the listener, being aware of it. Remember similar occurrences with C-SPAN's AUDIO ONE service, which was an attempt at a service much like WRN's. (Unfortunately AUDIO ONE never lived up to what we had hoped for it; now seems to be only classical mx and some VOA, but C-SPAN continue to provide the now only subcarrier access to the BBCWS on AUDIO TWO, for which we remain greatful.) (gh: outdated WRN sked deleted; see page 38)

CANADA IDEAS on CBC Radio, 9:05 pm local Monday-Friday (9:35 Nfld.) on Anik, of course, and on 6160 SW low power from BC and Nfld.; major AM freqs, W to E are: 690, 740, 1010, 540, 990, 1550, 740, 940, 1070 (CBC Radio Guide, via Tim Flannery)

May 30 **TALK TELEVISION**
Oprah. Donahue. Geraldo. Shirley. Television talk shows are an immensely profitable hybrid of journalism and soap opera. They spread the word on the latest afflictions and help sell the quickest fixes. They can make and break careers.

May 31 **OTHER WORLDS**
American daytime dramas like *Guiding Light* and British prime time serials like *Coronation Street*, have kept loyal fans for more than thirty years. In this series, St. John's anthropologist **Dorothy Anger** visits the fictional home towns of some of the soaps to see how and why they are made. What do they tell us about ourselves, and why do people watch them? British serials and American soaps depict very different lifestyles: on the one hand, gritty "Kitchen Sink Realism," on the other, the well-coiffed American Dream. Why are their visions of society so different?

June 1 **THE CASEBOOK OF SIR ARTHUR CONAN DOYLE**
Say "eleme[illegible]" and the world of Sherlock Holmes is conjured up: from his deerstalker cap to the gaslit streets of Victorian London. But there was nothing elementary about Holmes or his creator, Arthur Conan Doyle. The master detective was addicted to cocaine. And the man who invented him came to believe in communications with the dead, and that human beings, unaided, could fly. In the end, Conan Doyle murdered Holmes, but couldn't lay him to rest. They were inseparable. **Greg Kelly** opens the casebook on the psychological mysteries lurking inside 221B Baker Street.

June 2 **MEDICARE AT A CROSSROADS** how should limited public money best be spent on health and health care, and who should decide and enforce policy? Toronto writer **Ann Silversides** examines the real need for better health care in Canada, and the obstacles to it.

June 3 **WHAT DO AUDIENCES WANT?**
What drives the direction of the arts, artists or audiences? Featuring **Urjo Kareda**, artistic director of the Tarragon Theatre in Toronto.

June 6 **A SENSE OF WAR**
D-Day 1944 was the beginning of the end of World War II, and the nurses and others in Canada's Medical Corps were part of the first stages of the landing assault. What did they see and experience?
Writer and broadcaster Doug MacDonald

June 7 **June 8**

June 9 **HUNTERS IN THE WILD**
For centuries wolves were destroyed as symbols of evil. They're still hated because they hunt the same game prized by humans. But now they have passionate defenders, people who are enraged when wolves become the hunted. **Sarah Locke** explores the wolf's hold on our imaginations.

June 10 **TECHNOLOGY AND THE FUTURE OF PUBLIC PERFORMANCE**
Public performances are shared with strangers. Will they give way to arts available mainly through television? Will all aesthetic experiences be privatized? And at what cost?

June 13 **WORD FOR WORD**
A monthly feature on IDEAS hosted by **Ian Alexander** that explores the ideas of the best new non-fiction books – books on everything from ethics to physics, fishing to feminism, anthropology, politics, psychology and more.

June 14 **HILDEGARD OF BINGEN**
She began receiving visions in early childhood; she entered a Benedictine hermitage when she was eight; at thirty-eight, she had assumed the leadership of its community of nuns. Hildegard was one of the most spectacular – and neglected – figures of the Middle Ages. Her career spanned virtually every field of learning: music and theology, poetry and natural science, medicine and drama. In 1150, when she was fifty-two, she defied the monks of Disibodenberg and founded a convent for her nuns on the Rupertsberg, near Bingen. The twelfth-century Abbess Hildegard is being rediscovered. A portrait by Toronto writer **Tamara Bernstein**.

June 15 **THE BRAVE NEW WORLD OF WORK**
John Dewey was once asked, "Are our children good enough for industry?" He answered, "Is industry good enough for our children?" In 1960, people were urged to prepare for a leisure society. But *fin-de-siècle* images tell a different story: jobless recoveries, McJobs, a split-level society. Canadians are witnessing a revolution of falling

June 16 **SIMPLY LUCK**
The dice fall, the wheel turns, Fortuna, the ancient goddess, smiles. Superstitious or scientific, we carry with us deep convictions about the role of luck in our lives. Vancouver broadcaster **Carol Munro** rifles the pockets of tradition and culture in search of some definitions of luck.

June 17 **NEGOTIATING A COLLECTIVE CULTURAL SPACE**
Cultural equity is about power sharing, not tokenism; thus aboriginal artists and artists of colour are demanding support so their productions can be made and seen alongside "establishment" art. **Sheyfali Saujani** details why and how the Toronto Arts Council has responded.

June 20 **POLITICAL DUALISM**
Capitalism versus socialism; individualism versus collectivism: the "Right" versus the "Left". Long considered rational and relevant political divisions, they are now symbols of an outmoded and obsolete way of thinking about politics. **Writer Hugh Graham**

June 21 **June 22** expectations. Many work at two or three part-time jobs. Meanwhile, pundits glow over a new "information economy," and politicians "modernize" social programs. The transition from manufacturing to services mirrors the shift from farm to factory. But today's service jobs are fractured between systems analysts and contract cleaners. Most new jobs during the apparent boom of the 1980s paid **June 29** less than $7 an hour. In the recession that followed, a half-million jobs disappeared. Freelance writer and broadcaster **Jamie Swift** examines the brave new world of work, where the job sweepstakes demand training and re-training, and where training itself is a dynamic growth industry.

June 23 **NUCLEAR SPRING**
Writer and broadcaster **Timothy Grier** revisits the multi-media world of his youth and its messages of mass destruction: one view of how the nuclear arms race etched itself into the minds of a young generation.

June 24 **THE BEAT GENERATION**
Kerouac, Ginsberg, Burroughs. It has been thirty-six years since they burst onto the literary scene, but we still feel their influence: in our culture, literature and the law. Halifax writer **David Swick** considers their impact.

June 27 **June 28**
SPANNING THE LAND: THE MACKENZIE EXPEDITIONS
On the bicentennial of his historic canoe voyage in 1793, a re-creation by **Doug MacDonald** of the world of Alexander Mackenzie, the first European to cross North America. Mackenzie: in his business correspondence, a company man for whom reaching the Pacific was merely a bonanza for the fur traders; in his daily travel journals, a resourceful adventurer avid for knowledge of new terrain and its peoples.

June 30 **July 1**
THE LIVING BEACH
Beaches are among the most mysterious, alluring and implacable of landforms. They draw us inexorably to their edges, to think or play, to celebrate or mourn. Constantly changing, always moving, the beach behaves like a living creature. It retreats in the face of overpowering storms and grows or shrinks to the pulse of changing tides and sea levels. Our fascination with it is uneasy. Its mutability clashes, often violently, with the human longing for permanence. Author and broadcaster **Silver Donald Cameron** explores the structure and nature of beaches and our relationship with them.

8/2: Noted coverage this last Sunday of the Finnish presidential election of that day on Galaxy 4, Ch. 10 (in Finnish). But somewhere on the way to the U.S. uplink, the video was being subjected to digital compression, which looks like a series of still pictures being sent in rapid succession, but not fast enough to overcome blurring effects. (Of course, "regular" [analog] television and motion pictures are individual pictures [frames] being transmitted/projected in very rapid succession, so that there is no sense of an individual frame, no blurring effect.) But since this is the "television of the future", we may as well get used to it. The degree of compression determines the degree of untoward effects. PBS engineers have said their digital system looks great - 1:1 (that is, no compression). But users of DC talk in terms of compressions of 4:1 or more. Suppose, for some forms of video, e.g., classroom instruction, digitally compressed video will be sufficient for the purpose, but for other forms of video programming? - guess it's believed the public, considering the technical quality of the television most people watch, won't mind or even notice.

PBS DEPARTED from Spacenet 4 as of yesterday, but noted educational type programming still on Ch. 10 and colour bars on Ch. 12. In addition to the PBS channels on Telstar 401, the Georgia (Peach State) ETV network is also there (12.122 GHz H) with PBS programming and their own originations. On subcarriers there is a reading service and the Peach State Public Radio Network, in stereo, 5.40-5.88 GHz, giving us yet another source of NPR & APR programming, as well as classical mx, via satellite. At station break time the call letters of the Georgia stations on the network are given. The ITN WORLD NEWS from London (5:30 pm EST) remains on the PBS schedule C transponder (now 11.902 GHz V); yesterday was // S4, Ch. 10.

When PBS go "digital" will the "dishhead" have available to him equipments enabling continued access? It has been presumed not (vide supra), but that may not be the case, at least according to Gary Bourgeois on last Friday's "Friday Night Live" (Omega Satellite Net.). Our understanding had been that PBS would be using Digicipher I, while the public would be sold Digicipher II for Cable programmers using digital satellite transmission. The PBS channels would be in what amounts to a "fixed key" mode as they were when PBS were using Videocipher II for their satellite transmissions. As promised, the PBS "National Program Service" appeared on T401, Ch. 8, but there will be PBS programming that won't appear there. [14/2: No S4 channels carryins PBS/educational programming.]

S4/10, we now see, being used by South Carolina ETV. The health/anatomy program, featuring the genital-less "Mr. Goodbody", upat the moment.

STILL REPORTS that Anik E2 will fly again as a communications satellite, some evidently pretty positive, from Telesat Canada, steering jets being used to compensate for the loss of the "wheel". We'll see (if we shall see).

GOTO A CONVENTION in 1994! Sat Aug 20 (only) DUKE CITY HAMFEST, ALBUQUERQUE NM, at Army National Guard Armory, 600 Wyoming Blvd NE. Free admission, raffle tickets sold, ham exams given, flea market, full service store by Rad-Comm, Lubbock. Talk-in KC5FT/KB5SF on 147.15 MHz repeater; More info from Jay Miller, WA5WHN, P O Box 6552, ABQ NM 87197; or phone 505-821-2771.

IRCA CONVENTION, Westwood Inn, 910 Simpson Ave, HOQUIAM WA 98550, res. 1-800-562-0994, Fri-Sat-Sun Aug 26-27-28. Registration $30 includes Sat. nite banquet. July 15 deadline for reduced room rates. Radio station tours, DX quiz, guest speaker, auction; Pacific Ocean DX-peditions Fri. & Sun. 9 p.m.; picnic noon Sun. MW-only club. Reg. payable to Nancy Hardy, 2301 Pacific Ave., Aberdeen WA 98520-4527

RADIOCOM'94, 31 Aug-3 Sept., Holiday Inn, IRVINE CA. All-band, sponsored by SCADS, Wed.-Sat. exhibits, hopes to attract broadcasters. Room rates range $60-$80, 714-863-1999, fax 713-474-7236. Info from Stewart MacKenzie, 16182 Ballad Lane, Huntington Beach, CA 92649-2272.

NATIONAL RADIO CLUB, Sept. 2-5, Labor Day Weekend, Ramada Hotel, Merrimack, N of downtown NASHUA NH registration $40 including banquet c/o Bruce Conti, 35 Ridgefield Dr., Nashua NH 03062-1174 by Aug 26. Send SASE to same for more info. Room rates $45-$55, 1-800-922-3477. Station, brewery (!) tours, auction, Sunday seminars; possible seacost DX-pedition. MW-only club (+FM summer)/POP-COMM con cancelled/

MONITORING TIMES CONVENTION, Oct. 21-23, Airport Hilton, ATLANTA GA, rooms $71/nite, 1-800-HILTONS. $8000+ in Icom products given away. $50 registration. Dozens of exhibitors, pro listening post, intl bcers forum Fri eve w/McFarland. 20+ seminars, bug hunt, Delta tours Fri. Info: MT 1-800-438-8155. Free parking, comp shuttle, room deadline 9/21, pre-registration by 9/21; banquet +$21.95.

9/2 [On one side loudspeakers emitting Debussy via Peach State Public Radio and on the other side programming from WRN, Radio Korea just concluded, BBC for Europe coming up.]

THE "DRILL BILL & PILLORY HILLARY SHOW" might well be the all embracing title for that great contagion now rampant on America's airwaves: the radio talk/call-in show, the raison d'etre for a growing number of networks offering that type of programming, some distributing only one program (e.g. Limbaugh's or Liddy's), while others offer a full day (and night) of these programs conducted by various persons. Locally, we have "All Talk" WLXG (1300) providing call-in shows from various networks, while our access to satellite transmission makes many more available (some on subcarrier, some on SCPC, some both).

These programs, many - perhaps most - of them, provide an outlet for what we would call the American version of Zhirinovskyism. Frightened, frustrated, people flock to these shows with their right-wing/populist orientation: for the evil than which there is none greater is "liberals" who are "soft on crime", feign love for minorities and the poor but really suppress them with hare-brained, money wasting, "social programs", want to take your guns you need to defend yourself from the criminals years of liberal social policy have generated, and worst of all appropriate your (and corporate) income in taxes for "redistribution of wealth" schemes, in effect putting the economy, which would otherwise grow by leaps and bounds, in a straightjacket. In addition to the "liberal" indictment, the talk show kangaroo court has already convicted the Clintons in the Whitewater matter and of some sort of role in the strange death of Mr Foster.

In addition to the standard right-wing line, we have other talk shows featuring a "government is the enemy" theme and seeing various conspiracies afoot. Such notions have populist appeal.

We're in the trouble we're in because of people (like the Clintons) who are stupid, or malevolent, or both - or, more likely, because presidents of either party are essentially the tools of the "invisible government". Inimical to our interests, both personal and national, are activities of the international bankers, the Federal Reserve Bank, organizations like the Council on Foreign Relations, etc. People like William Cooper can trace the roots of the evil into the ancient past. Tom Valentine seems willing to believe almost anything no matter how seemingly "screwy".

Now we would say that talk/commentary shows like Cooper's and Valentine's and Chuck Harder's are more interesting than the liberal bashing of a little smart-ass like Limbaugh. None of these three could in any sense be called "liberals", but at least they're anti-establishment. And seemingly far-out views are not, always, necessarily devoid of a grain of truth, or at least of a perspective that could be considered, to be accepted or rejected on the basis of the quality of information one has to bring to bear. On these "more interesting" talk shows insight and absurdity can stand side by side.

A newcomer to the talk show scene is former California Governor and presidential aspirant, Jerry Brown, whom I find interesting but too much the iconoclast - in touch with certain truths - ever to be President. Jerry may be heard on the TALK AMERICA NETWORK (Spacenet 3, Ch. 9, 6.8 MHz, 7:05 pm EST.)

It is to be remembered that nearly all radio talk shows - those heard on "talk radio" stations or stations carrying one or some such programs - featuring an opinionated host, are first and foremost commercial enterprises, their success depending on a listenership large enough to attract advertisers. But do most people listen to these programs? We think not, but a lot do and they tend to be enthusiastically committed to the hosts' "line", e.g. the Rushlings, which provides credence for/confirmation of the listeners' prejudices (in their minds) without specifically sanctioning them. (Is Rush a racist? No. Does he give comfort to racisists? Yes.) Why are there virtually no "liberal" radio talk shows? Liberals don't listen to radio in sufficient numbers to make them commercially viable?

19/2: ANOTHER CORONAL HOLE has occurred with no apparent anomalies in Clarke Belt satellite functioning, tho' shortwave reception last weekend was zilch. Fortunately we were able to hear "World of Radio" (after a fashion) Sunday evening (01:00 Monday UTC) via the WHRI satellite feed. We say "after a fashion" because half way through the program audio on the 7.57 MHz subcarrier was coming in also on 7.46 MHz, thus mixing it with WOR, so some mindfiltering was necessary to hear (for intelligibility) only gh. WHRI at the time was inaudible on SW. A similar crosstalk situation occurred with the DW subcarriers on C4/5 a while back persisting for 3 weeks or so.

ADAM AND EVE, another quasi-pornographic channel, is transmitting in VCII+/Telstar 303, Ch. 17. CANADIAN EXXXTASY, after some satellite/transponder changes, has setteled, at least for a while, on Telstar 401, Ch. 7. Telstar 303 was the home of the original AMERICAN EXTASY, an "in the clear" quasi-pornographic channel (q-p meaning penetration not shown) on Ch. 18, tho' the main attraction on the channel for "dishers" was on subcarrier: Keith Lamonica's FM AMERICA (1985-6).

AT THE MOMENT listening to George Wood's "Media Scan" (RSI via WRN). The program now is virtually all satellite news - OK with us - but undestandably not pleasing to SWLs, the program both in time alloted and content bearing no resemblance to the one Arne Skoog began. Which leads us to:

ARE AT LEAST SOME INTERNATIONAL BROADCASTERS prematurely jumping on the satellite bandwagon? Tho' we enjoy being able to listen to international ("world band") radio in the fidelity satellite transmission affords, shortwave is still the best, most efficient, way of reaching a worldwide audience, and we have no intention of disposing of our SW receivers, ancient & modern, whose knobs we still love to twiddle, whose trimmers & coils we still like to bring into alignment. AND WE JUST LIKE THE SOUND OF A VACUUM TUBE RADIO. And DXing (pulling through the "tough ones") can still be an exciting and challenging hobby. Unfortunately, local high noise levels have just about ended that aspect of the radio listening activity for us.

At some point in the future there may be some sort of satellite dissimination international broadcasters can make use of (likely via low orbiting satellites) that can approach shortwave in efficiency and universality of access: a necessity will be low cost, easily available receivers, in those respects on the order of today's shortwave portable radios. A precurser to such a system and receivers could be the current satellite global positioning system, making use of portable-sized receivers with a tiny "dish" affixed (e.g., the SONY PYX15, a rather expensive device).

Since mobility is today's lifestyle for so many, radio must continue to be making use of means of transmission making it available to those "on the go", as it must also continue to be available to the world's informationally disadvantaged peoples. So, broadcasters, keep those HF transmitters pumping! - at least until you have something that will do the same job just as well or better.

Here is an electronic device, built over 60 years ago, that can be used today for exactly the same purpose it was used then. What is it? A broadcast/SW radio, of course. We like that. (But what of a radio built today 60 years hence?)

THESE REMARKS were compiled in diary form, with information correct for the dates indicated, not necessarily at the time of publication. There may be addenda & corregenda if significant. Double spacing is being used as a means of facilitating reading. We hope the additional pages required for doing so will be deemed worth it. Reader obesrvations, contributions on "media" topics - a very wide field, but you know the areas we're most interested in here - are always welcome.

20/2: Excellent continuous Winter Olympics coverage on PanAmSat (Ku). ["Sports are a lot of damn foolishness" - Harry S. Truman.]

ADDENDUM: 7 MAR.: Our Areopagus in the sky? Not to the extent that we had hoped the Clarke belt would become that, but it has been and continues to be at least to some extent, a case in point being the recently inaugurated NATIONAL ACCESS TELEVISION (NATV) on ASC1, Ch. 11, an outlet for alternative programming, some much of the sort that has been on DEEP DISH TV. The channel is available to any programmer, evidently at relatively modest fees, for presentations of social significance, viewpoints political, religious, etc., e.g., documentaries from CAM NET. The channel is an outlet for programs dealing with the nation's economic underside, homosexuality, marajuana advocacy, environmental issues and other "unpleasant" or unpopular subjects. This morning the pastor of the Christian Village Church in Forked River, NJ, was debunking the presumed Biblically sanctioned subjegation of women by men, maintaining that what was really meant is that the male principle of Mind (reason) should be dominant over the Female principle of Emotion, all of us, man or woman, having those principles within us. (In regard to Mind being male, cf. Mr Joyce's chauvinist observation that philosophy and metaphysics are "men's work".) But surely Emotion should not be wholly dispalced by Mind ("I must control my emotions!" said Mr Spock.) In any event, by this explanation, one can be a Christian without having to accept as a divine sanction the superiority (the right of domination) of men over women. This program was followed by double-negativing "street poet".

After 10 pm ET (and on through the night) "sex rears its ugly [not to us, tho' a bit puerile] head" on NATV. There is a talk show from New York Cable by one Robin Byrd, who appears with only nipples and pudendum covered. Guests from the world of erotica, both homo & hetero, appear on the program. The rest of the night is devoted strippers, sex talk, and what appear to be home produced sexual playlets. Interspersed with all of this are ads ad nauseum for sexphone services - evidently there are enough mentally malformed people (or are they mostly juveniles, who are supposed to be prevented from calling these numbers?) to keep these businesses going? We had expected amusing ol' Al Goldstein might be showing up on NATV, but that hasn't happened thus far.

And, I declare, erotica via satellite does seem to be in a state of some proliferation. Because, yes, yes, in addition to everything mentioned thus far, we now have TV EROTICA, with three XXXplicit flicks each night beginning at midight ET on Telstar 302, Ch. 18 as a "pay-per-view" service (VCII+).

With the CANADIAN EXXXASTY channel now (evidently permanently) on Telstar 401, and the SPICE and ADAM AND EVE channels on Telstar 401, it appears that GTE's Telstar satellites could be called the "pornsats". We still wonder how long the protectors of the public's "morals" are going to permit this to continue before taking action against GTE? (Can there legitimately be said to be a specific "sexual morality"? People can be hurt in contexts in which sexual activity occurs, but it is the hurting, not the sex, that is immoral.) Therz thoz (e.g., the Bourgeoisie, Omega Net) who find this satsex indicative of moral degeneracy, while relishing the utterances of ultra-right wingers, hate-mongering preachers, etc., whose arse-belching occurs on the airwaves (satellite, SW, MW).

OTHER SATELLITE NOTES: NHK New York is now on Galaxy 3, Ch. 5; Tokyo Broadcasting System (TBS) New York is on the same satellite, Ch. 17 (TBS carries Eurovision newsfeeds). All U.S. government broadcasting activities are now on Spacenet 2: WORLDNET & VOA were already there (Ch. 3) as well as AFRTS TV & Radio (Ch. 20) [AFRTS TV can be viewed only at authorized downlinks, but AFRTS radio is in analog format on subcarrier]. Now NASA SELECT in on Ch. 9 with their "scarmbled" channel on Ch. 5. RADIO MARTI's SCPC feed has been moved from Satcom F2R to S2. The normally "scrambled" SUR (S2/4), carrying programming from Latin American Networks, has been "in the clear" for a while. A source of continuous news for the Spanish speaking is NBC's CANAL DE NOTICIAS on Spacenet 2, Ch. 11. RAI-USA, with programming in Italian, replaces NATV on ASC1/11 early evenings and Sunday mornings.

17 MAR./THE COMMUNICATIONS REVOLUTION in the form of the "Information Superhighway" continues to be all the talk these days among technologists and in media circles, and the whole business is certainly replete with interesting possibilities, but maybe we're just too old to get wildly excited about it. This may be because we're more interested in message (i.e., content) than the medium with which it is conveyed, transmitted, and we're not much impressed with the quality of most of the messaging about these days, and don't see that more "channels" will io ipso produce a significant improvement in that regard. Mr Shxpr's "message" could be conveyed with so rudimentary a medium as the Elizabethan stage; of course it has also been gloriously presented via our electronic media, but it was hardly in any way responsible for it - and it is not NECESSARY.

We never really cared much for the old McLuhan cliché "The Medium is the Message", because, if true - and in a way it is - we don't think that's necessarily a wholly happy situation. But the message obviously doesn't exist without the medium (a medium). And a medium can make a message possible in a way that would not otherwise have been the case. Expands possibilities of "message"? If Shxpr had been writing for the cinema or television instead of for the Elizibethan satge, how would his "message" have been effected? It wouldn't have been effected at all - only different means would have been used for the expression/communication of it? How would Shxpr have delt with a primarily visual medium, since, for the Elizibethan stage he had to do virtually all of it with language, e.g., he couldn't show Cleopatra's barge (in Anthony and Cleopatra), so, tho' it "beggar'd all description", he had to have Enobarbus describe it. Now could any picture have been better - more effective - than Shxpr's words? (The absence of a visual medium required a verbal medium of the highest order; but now we have visual media, with the consequent loss of value that is inherent in that which is most decorously written or spoken?)

But new media makes possible new art forms; can have values inherent in their perfected uses? Surely. But in the cinema and television the visual presentation is of course primary, reducing language to a secondary status: actions, interactions, revelatory behaviours, things, can be shown, not just talked about or revealed (only in) words. And yet, written/spoken language remains the primary medium for the presentation and clarification of thought, ordering, categorizing, reasoning.

And yet there is an ineluctable charm in our electronic media which is independent of any "message", use as a conveyer of messages. We remember that in the early days of the medium one wasn't so much watching a program as watching TELEVISION; it didn't much matter what was "on". The medium itself took precedence over any message - in that sense was the message of significance.

And isn't that much the way it is now with the "information superhighway"? - the idea of it being in and of itself of greater charm than any of the projected uses of it? - any "message" it may convey? Providing for a multiply of messaging unprecidented in human history.

Cf. G.K. Chesterton's remark when he was told about radio: "What a time to invent a thing like that when men have so little to say."

THE EXCUSE GIVEN for the collapse of the TCI-Bell Atlantic deal was the modest Cable rate regulation that now obtains. But we believe the participants simply saw that the merger was economically premature: there would not quickly enough be that great market for what they intended to offer. (Silly liberals have expressed concern about those who won't be able to pay the toll to get on the info SH/; not that the poor and their genetically defective progeny in our two tiered society [don't you love it?] would likely be able to realize its possiblities.)

MAIN STREET TV (vintange movies) have moved from S2/7 to Satcom F2R, Ch. 5. BROTHER STAIR may be heard on the 5.50 MHz subcarrier.

WORLD RADIO NETWORK UPDATE: The schedule undergoes continual evolution, tho' it appears to have stabalised following Daylight Shifting Time changes, generally services one hour earlier by GMT. See schedule below, compiled from monitoring. As we suspected WRN operations are automated/computer controlled, which means things go wrong without anyone seeming to be aware of it. Sometimes the announced service doesn't come up at all, leaving a ½ hour of silence, or there can be problems with the WRN reception of a service. This has been occurring with the Kol Israel feeds. The Radio Moscow feed is being taken from a somewhat out of footprint satellite, requiring threshold extention technechiques, which eliminates weak signal noise, but results in some audio distortion. Actually the audio fidelity was better from SW off-the-air pick up, but was subject to QRM & QSB. The fidelity on most of the services is superb, a great advantage over shortwave for musical programming, e.g., Radio Korea's "Echos of Korean Music". (Some of the above info from "Media Network", having now experienced Mr Marks in hi-fi.) The schedule as per MID-APRIL 1994 (both BBC Radio 4 & London Broadcasting Co. have been dropped, & Radio Flanderin, Swiss Radio International & Deutsche Welle have been added); North American Service only (ASC1/23/6.2); times UTC:

WORLD RADIO NETWORK -

00:00 RSI; 00:30 KI; 01:00 YLE; 01:30 RNW ("Media Network" is carried during this Thursday UTC release, "Research File" during the Friday UTC release); 02:30 Blue Danube Radio (Vienna); 03:00 YLE; 03:30 Vatican Radio; 04:00 RCI; 04:30 BBC FOR EUROPE ("Europe Today"); 05:00 Deutsche Welle; 06:00 RCI; 06:30 SRI; 07:00 Radio Australia; 08:00 Radio Korea; 09:00 Radio Moscow (BBC Topical Tapes during this time period Sundays); 09:30 RNW ("Media Network" during this release Thursdays); 10:30 KI; 11:00 Radio Korea; 12:00 RTE RADIO ONE (Dublin); 13:00 RFI; 14:00 YLE; 14:30 Radio Vlaanderen ("Brussels Calling"); 15:00 Radio Australia; 16:00 Blue Danube Radio; 16:30 RNW (WRN still being taken down on ASC1 during this release, programming restored at) 18:00 Radio Australia; 19:00 KI; 19:30 Radio Vlaanderen ("Brussels Calling"); 20:00 RSI (RSI releases carry George Wood's media/satellite news on the first & third Tuesdays of the month); 20:30 BBC FOR EUROPE ("Europe Today"); 21:00 RTE RADIO ONE (Dublin); 23:00 BBCWS ("Newsdesk"); 23:30 RTE RADIO ONE (Dublin).

Some of these releases are "live", some tape delayed. All programming is English except for a bulletin of news in French during Blue Danube Radio releases. Has also been some news in French during KI releases. The WRN schedule "subject to change without notice".

We recommend WRN - as well as the 24 hour per day satellite feeds of BBCWS & Deutsche Welle - to the international ("world band") radio listener who is content to be without the thrill of the vagaries of shortwave reception.

CINCINNATI ("VAS YOU EFFER IN ZINZINNATI?") MEDIUM WAVE SHAKEUP: As reported on "World of Radio", 7 etc. Apr, there has been a moving around/exchanging of frequencies on some long time Cincinnati radio stations. WSAI (one of the two original Crosley stations, 1360 kHz) took over the 1530 kHz frequency, and presumably the 50 kw. transmitter, of WCKY, WCKY taking over the 550 kHz. frequency, and presumably the 5 kw. transmitter, of WLWA, the former WKRC, which had been the sister station of WLW for a relatively short time. Earlier this week (this is being written 15/4) an endless tape loop was running on 1530 informing listeners to tune to 550 for Limbaugh & Liddy (I imagine very popular in the Cincinnati market; a local fellow named Cunningham holds forth late nights on WLW for the liberal/Clinton haters). WSAI programming began on 1530 yesterday. Curious as to what was happening on the old WSAI frequency, we tuned to 1360, finding there a continuous tape loop of the same type that had been playing on 1530 directing listeners to tune to that frequency for Bob Braun (now back in Cincinnati) and those "original hits". This morning, before the tape loop started, WSAI was operating // on 1360 & 1530. It has been conjectured WLWA might be moving to 1360, but as of this writing, it isn't clear what will be happening on that frequency. [18/4: Now we know. Tuned to 1360 and found programming from RADIO OZ, the children's radio network (satellite feed: ASC1/22/7.92-8.10). Listened for an on-hour call letter ID, but none was given. Still some announcements for new WSAI location. These new rules pertaining to radio station ownership in the same market produces what at one time would have been seen as strange shiftings and alignments.]

The original QTH of WCKY was Covington, KY (hence the call letters), on the Kentucky side of the Ohio River. We remember that in the 1930s the station IDed as "WCKY, Covington, one minute from Cincinnati". The station's owner for many years was the curmudgeonly L?B. Wilson, the station also being identified as "The L.B. Wilson Station". A one time morning man on WCKY was Leo Underhill, one of the great talents to work behind a Cincinnati microphone. The irrepressible Leo went on to become "Ol' Undies" on WNOP, Newport, KY, which in the '60s & into the '70s, with its jazz and comedy format, was the best radio station I ever listened to - it was simply hilarious - intelligently hilarious. WNOP, after several ownership and studio location changes (there was that unique studio in a huge steel drum floating in the Ohio River), is still on the air (740 kHz), but originating no programming, just relaying "all news" CNN Radio for Cincinnati. A sad come down for Radio Free Newport.

17/4: Instead of CBC "Sunday Morning" (via RCI), C-SPAN AUDIO ONE was carrying Radio Japan this morning - evidently downlinking the wrong data stream from the transponder on AE1/Ku carrying the digital feeds of international radio to Sackville (included "Media Roundup").

JOHN MARX (WI) LIKES WRN:

Since installing my dish less than a year ago, I've been surprised at how much more I use it to receive radio programs than television. Having access to the BBC World Service, both CBC English networks, CJRT-FM Toronto and Minnesota Public Radio were enough to keep me glued to the machine. Then came the World Radio Network on SCOLA's 6.2 MHz subcarrier on ASC-1, Channel 23.

For a long time shortwave listener who gave it up in frustration, WRN is exactly what I had longed for but could never find. They were carrying RTE Radio One live from Dublin when I stumbled across them. Finally, Ireland! I was hearing a country never represented on shortwave and, better yet, a domestic service with news and weather and local interest - warts and all. Then came others including YLE Finland and Blue Danube Radio from Vienna! What magic, to have all this, crystal clear while sitting in the din.

I've since invested in Ramsey Electronics' FM-10 stereo transmitter kit [$45 including case from 1-800-446-2295] which easily re-transmits any satellite delivered audio service to any FM radio around the house and a few acres beyond. Austria, Ireland, Israel, Australia - all available to accompany the yardwork. I cannot imagine going back to anything less. Alas, this may be short lived. SCOLA will convert to digital compression in September. Unless I invest additional thousands in equipment, I'll be back to the basics. There is a chance SCOLA will keep WRN up on a C-band analog transponder, but only if enough interest is shown in the service. Like SCOLA television, the audio services, including WRN, are primarily for subscribing universities and cable systems. Backyard dish owners are listened to, however. If you enjoy WRN, please let SCOLA and WRN know about it.

Addresses:

SCOLA, P.O. Box 619, McClelland, IA 51548. Attn DAn Pike.

World Radio Network, 408 The Strand, London WC2 ONE England.

John / truth is there are those who consider those of us who listen to international radio in high fidelity via satellite as CHEATERS. Struggling with the vagaries of shortwave reception has just GOT to be a part of being an international radio listener. If that's the only way, OK, we'll do it, go back to it if we have to - with the best available HF "inhaler". The degree of accessibility we "dishheads" are to have to the forthcoming digital audio and video transmissions is not clear. It possibly could be a good deal, with the appropriate receiver, e.g., the General Instrument DSR 1600B, to be used, I believe, by PBS and other educational broadcasters on Telstar 401, SCOLA among them.

TELESAT CANADA hope to have ANIK E2 restored to operation by August, 1994. As a temporary replacement for limited service, the recently deactivated Telstar 301 has been placed in the AE2 orbital slot, the only user thus far being the CTV Network, which have been using Spacenet 4. UnLetiched as of this writing.

WRN is currently available on a few Cable systems and an FM station in Little Rock, Arkansas.

FOR THOSE WHO LIKE TO TUNE IN ON MILITARY COMMUNICATIONS, UNIVERSAL ELECTRONICS, INC, 4555 GROVES ROAD, SUITE 12, COLUMBUS, OH 43232 [(614)866-1201] have issued The Comprehensive Guide to Military Monitoring by STEVE A. DOUGLAS, 280 large pages, $19.95 + $4.00 posatge. Subjects covered include Monitoring Equipment and Systems, Military Shortwave Frequencies, VHF/UHF Military Frequencies, Major Air Force Installations, U.S. Military Bases, Military Monitoring Playbook, Navy/Coast Guard Communications, with the most fascinating chapter being the one devoted to the world of "stealth" aircraft. The author, who currently "strings" for CBS and is consulted by the media on areas of his expertise, is described as a "stealth chaser" and "recently captured the only images of the 'TR-3 Black Mantra' that the Air Force still denies exists. A haunting video still of the aircraft is featured in the book." Other covert military projects are explored. The book provides "everything from equipment needed to the frequencies used by the military. There is even a 'milspeak' dictionary of sorts that helps you understand the military lingo. A base-by-base list of military frequencies, the top nationwide frequency listings, maps of military bases and refueling tracks, a source guide and even a complete listing of the U.S. Navy's FLTSATCOM channels are all included..."

REVIEW OF
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WORLD OF RADIO Monitor our weekly listener-supported public service program--on WWCR Nashville TN Fri 2115 UT, Sun 2300, Tue 1230 on 15685; Sat 0600, Sun 0315 on 7435; Sun 0600 on 5810. On WHRI Noblesville IN Fri 2302, Sun 0130 on 7315, Sat 0600 on 7315 & 9495, Mon 0100 on 9495; KWHR Naalehu HI Sat & Sun 0600 on 17780, Sat 0900 on 9930 (also Galaxy 4, Tr. 15, 7.46, 7.55, 7.64 MHz). On RFPI Costa Rica Fri 20, Sat 04, 12, 18, Sun 02, 10, 23, Mon 07, Tue 19, Wed 03, 11 on some of 21465, 15030, 9400, 7375 (possibly revised July 1). On WNQM Nashville Sat 12 am CT; WPKN 89.5 Bridgeport CT Sat 2:30 pm ET; WSUI 910 Iowa City IA Sat 10:30 pm CT; KSIR 1010 & 107.1 Brush CO and KRDZ 1440, KATR 98.3 Yuma/Wray CO all Sun 11:30 am MT. Except RFPI, WHRI & KWHR, times shift one real hour later after DST in Oct by UT to stay at same local clock time. GH's Spanish DX report on RN's RADIO ENLACE Fri=UT Sat 0003 & 0303 on 15315, 0503 on 9590 & 6165, usually starting first Fri.

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